

Appendix -

Test Data and Result for report

GZCR250300027207

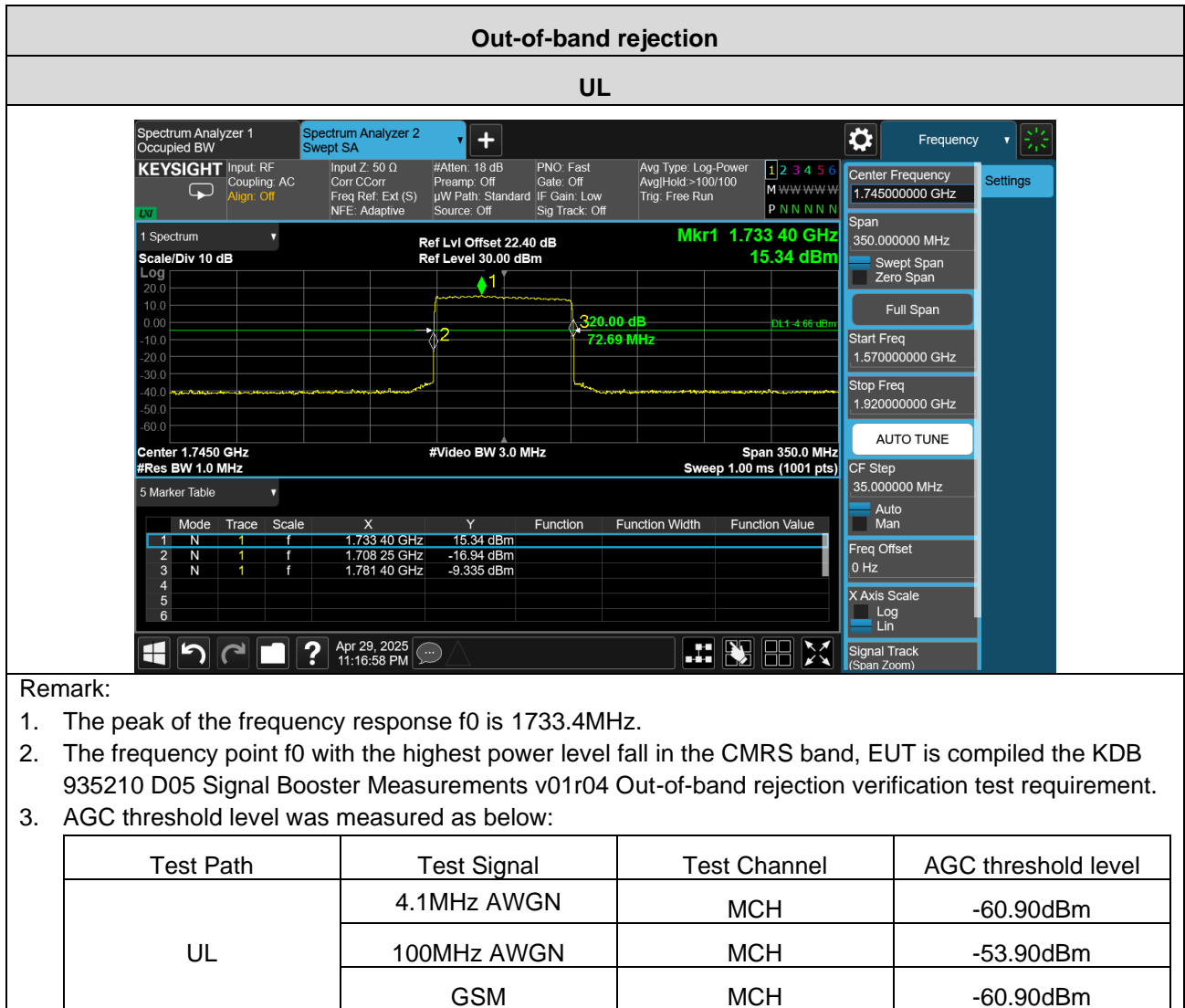
(For AWS Band UL)



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1 Out-of-band rejection



2 Input versus Output comparison

| Occupied Bandwidth | | | | |
|--------------------|----------------|--------------|---------------|---------|
| Test Path | Test Signal | Test Channel | Signal Level | Verdict |
| UL | 4.1MHz AWGN | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | 100MHz AWGN | MCH | Pre-AGC | PASS* |
| | | | 3dB above AGC | PASS* |
| | GSM | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |

Remark:

- * The band supports maximum channel BW is 20MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN as input signal.
- Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.

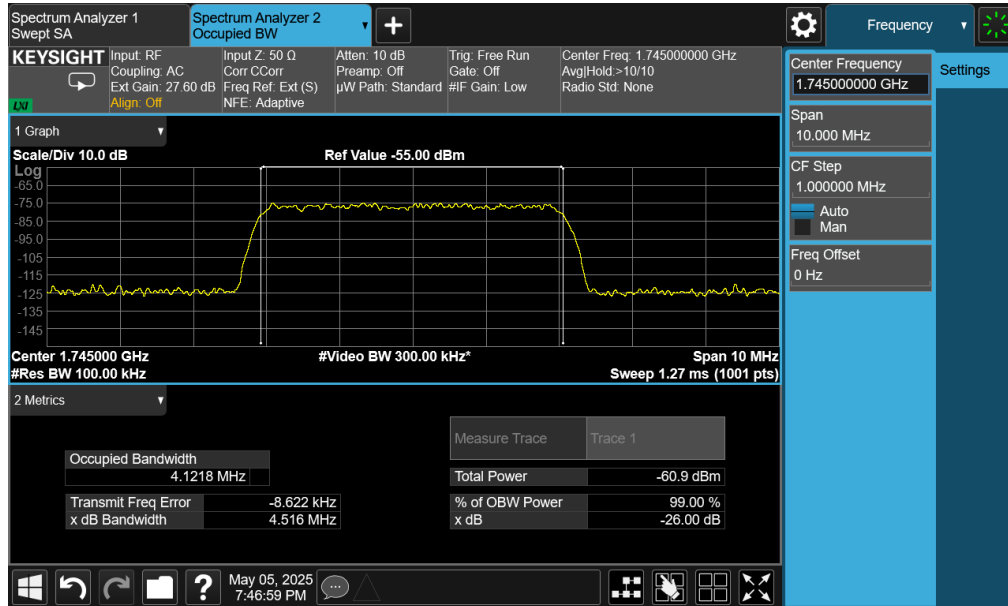


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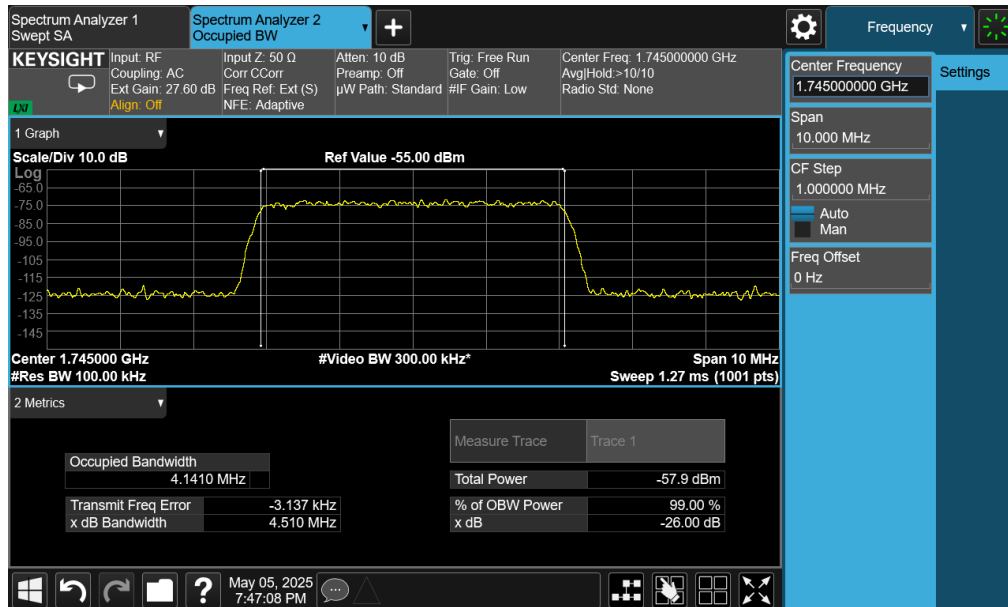
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99% OBW

UL_4.1MHz AWGN_MCH_Input_Pre-AGC



UL_4.1MHz AWGN_MCH_Input_3dB above AGC



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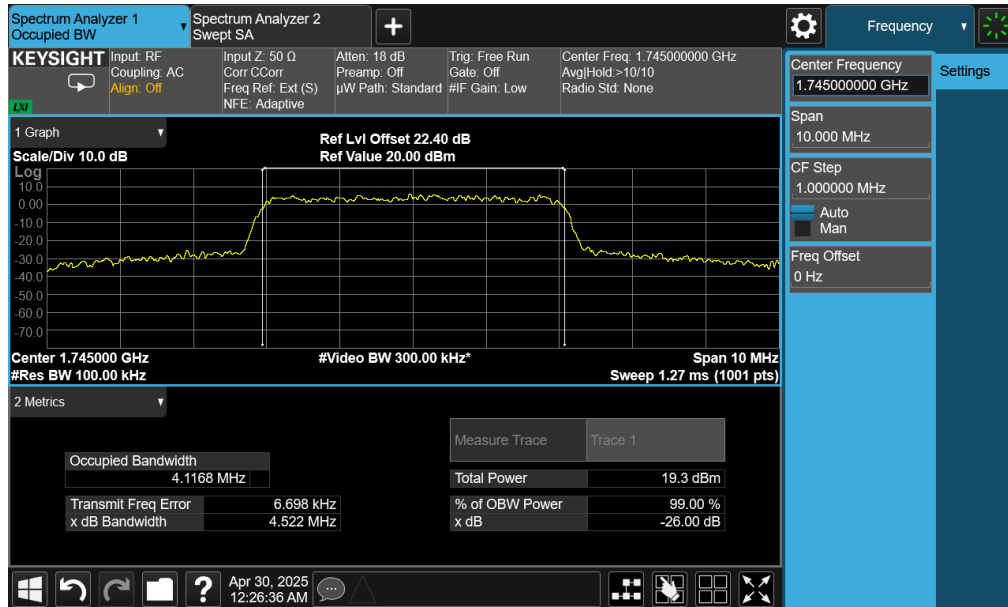
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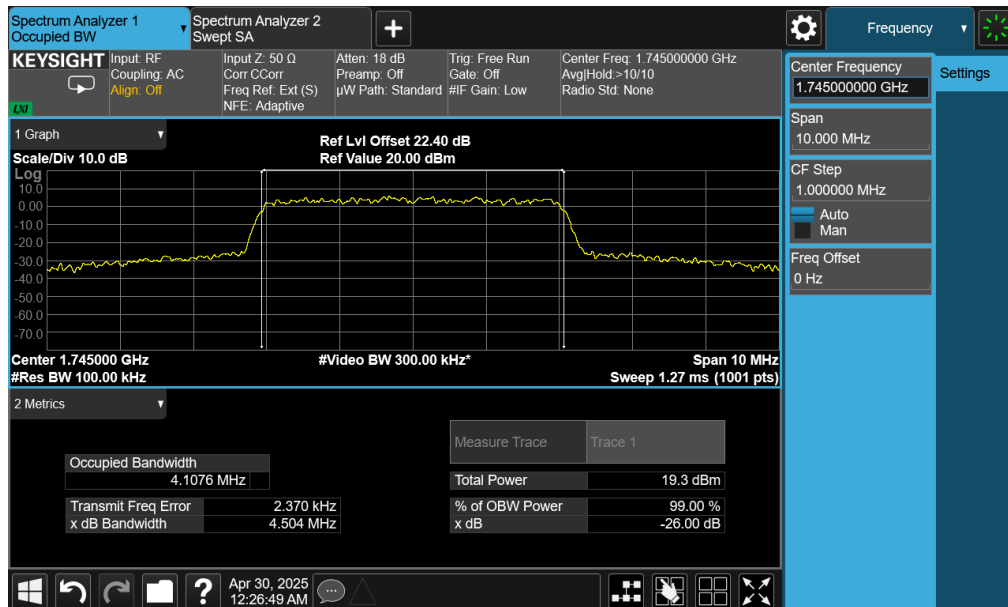
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99% OBW

UL_4.1MHz AWGN_MCH_Output_Pre-AGC

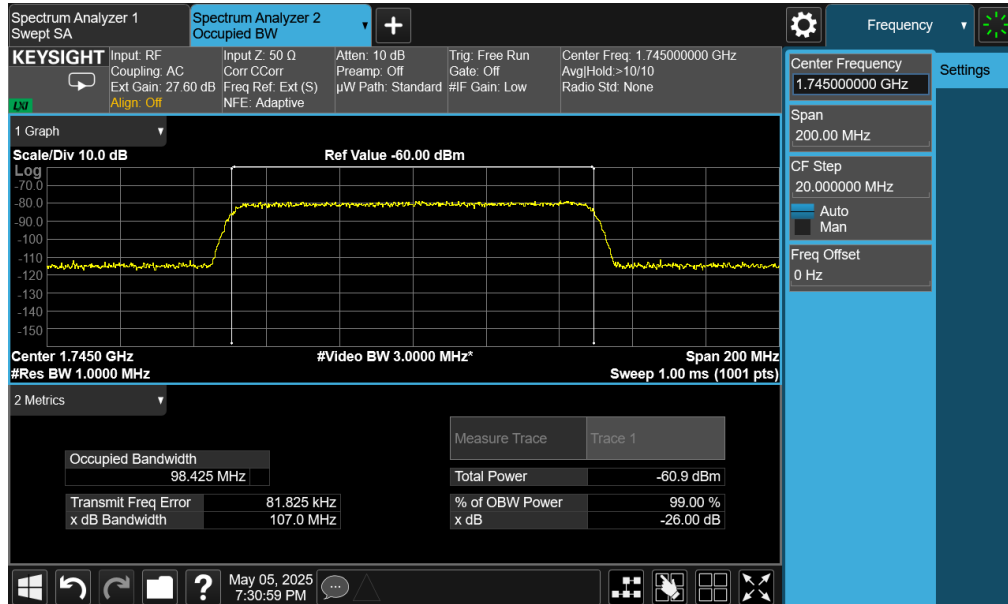


UL_4.1MHz AWGN_MCH_Output_3dB above AGC

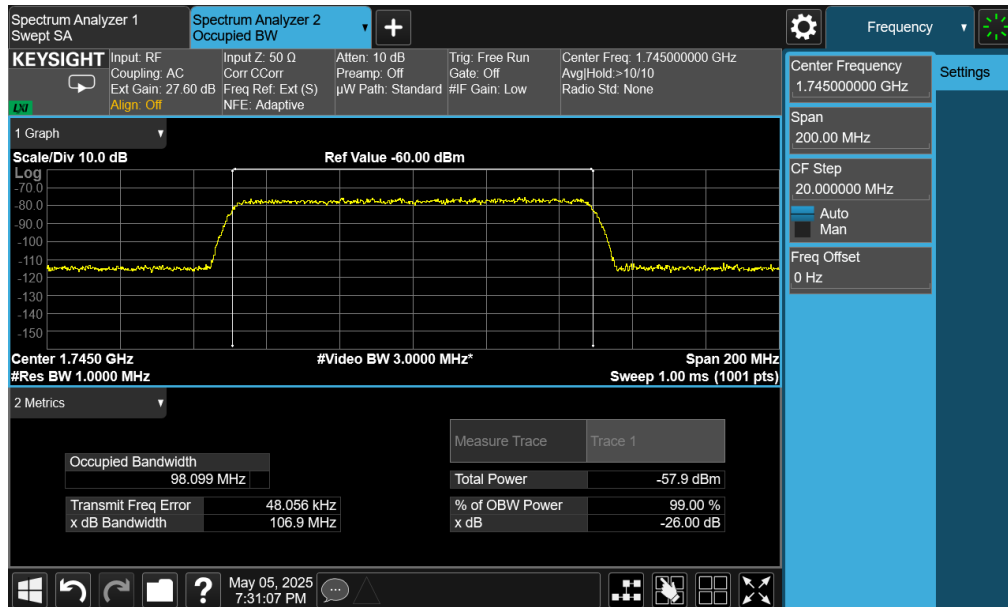


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UL_100MHz AWGN_MCH_Input_Pre-AGC



UL_100MHz AWGN_MCH_Input_3dB above AGC



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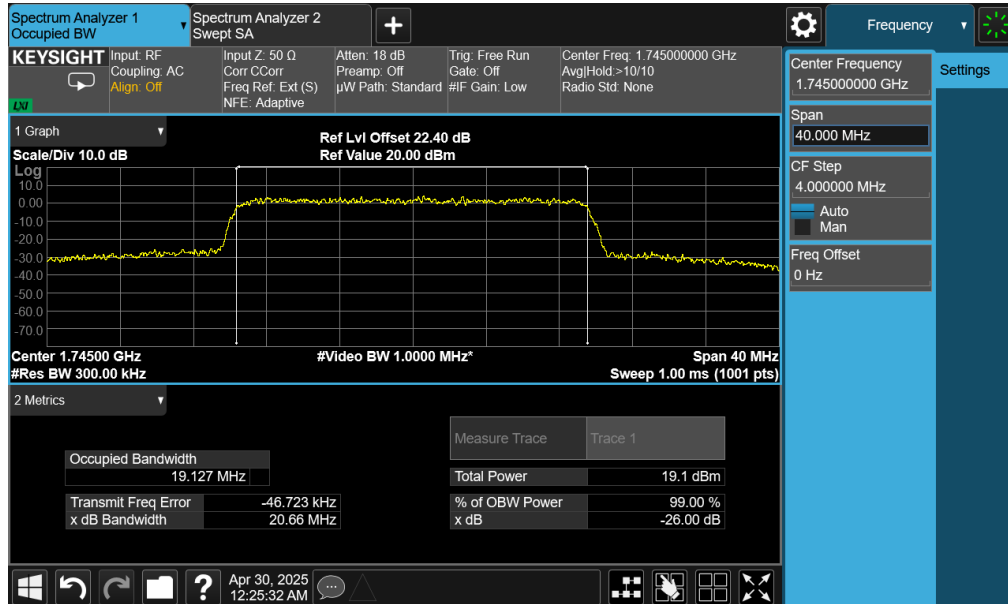
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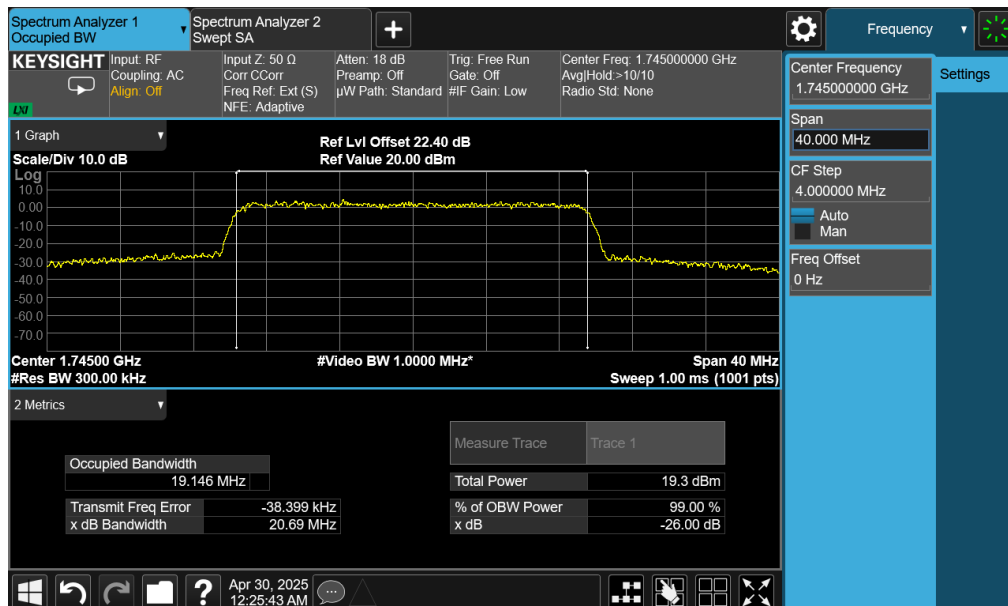
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99% OBW

UL_100MHz AWGN_MCH_Output_Pre-AGC

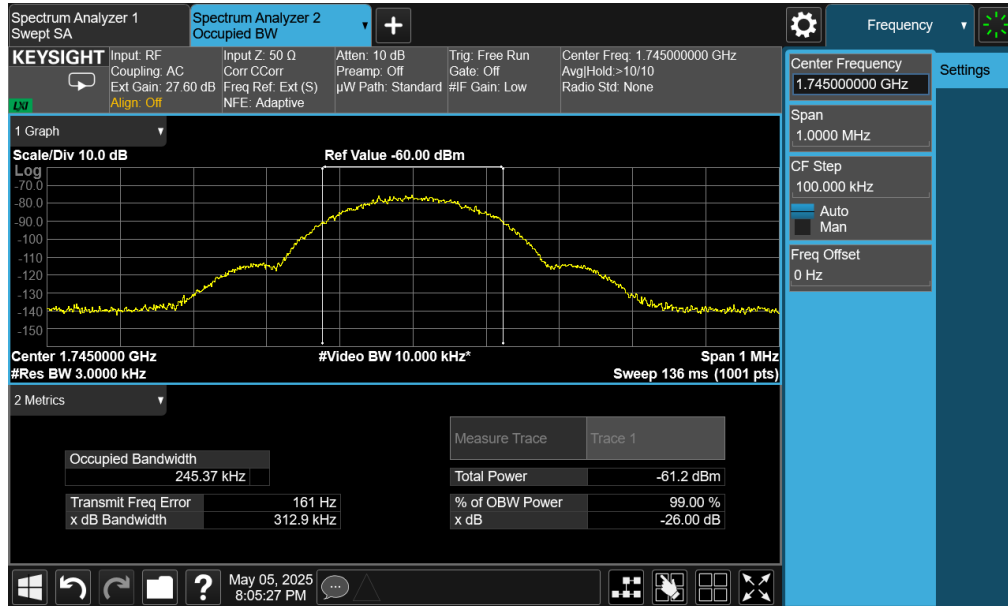


UL_100MHz AWGN_MCH_Output_3dB above AGC

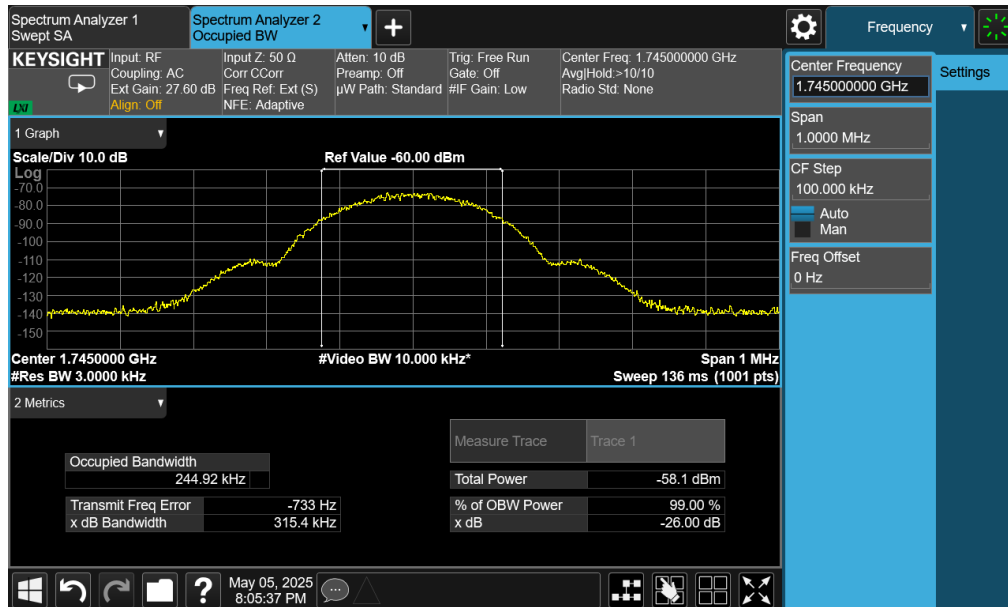


99% OBW

UL_GSM_MCH_Input_Pre-AGC



UL_GSM_MCH_Input_3dB above AGC



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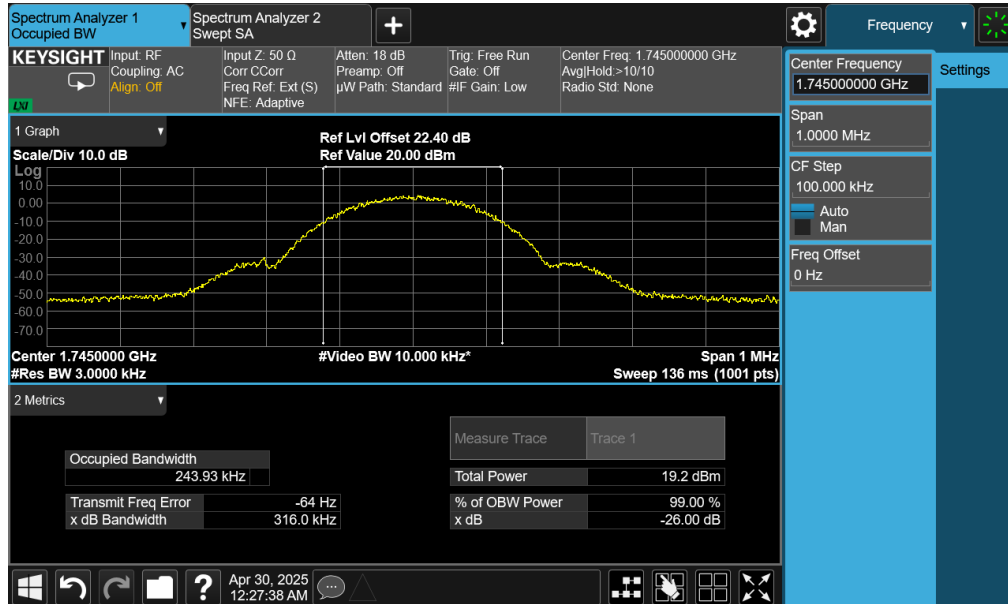
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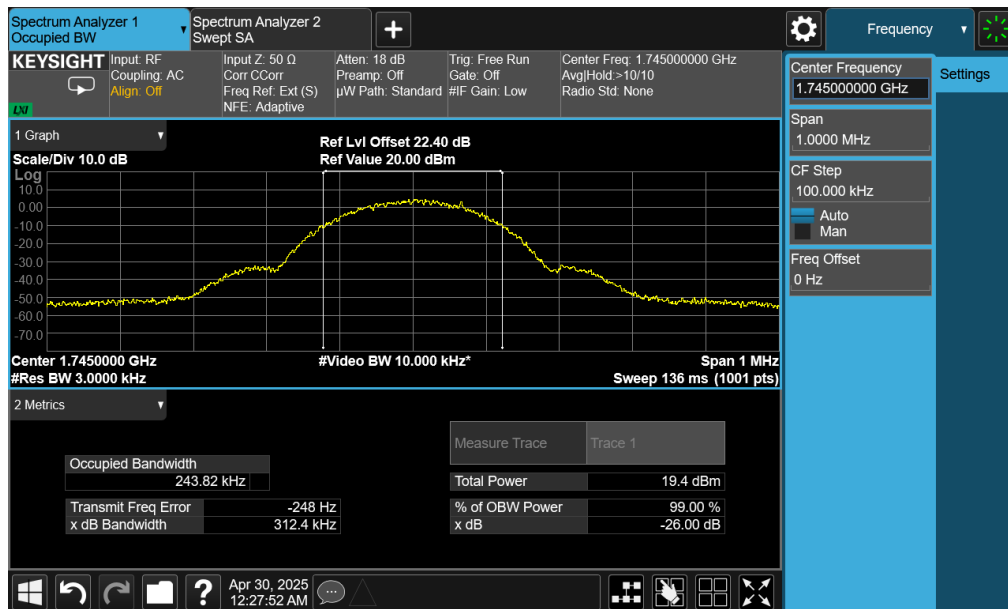
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99% OBW

UL_GSM_MCH_Output_Pre-AGC



UL_GSM_MCH_Output_3dB above AGC



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3 Mean output power and amplifier/booster gain

| Mean output power and gain | | | | | | | | |
|--|---------------------|-------------|---------------|-------------------|--------------------|------------|----------|-----------|
| Test Path | Test Freq. f0 (MHz) | Test Signal | Signal Level | Input power (dBm) | Output Power (dBm) | EIRP (dBm) | EIRP (W) | Gain (dB) |
| UL | 1733.4 | 4.1MHz AWGN | Pre-AGC | -61 | 19.22 | 33.22 | 2.10 | 80.22 |
| | | | 3dB above AGC | -58 | 19.50 | 33.50 | 2.24 | / |
| | | 100MHz AWGN | Pre-AGC | -54 | 19.19 | 33.19 | 2.09 | 73.19 |
| | | | 3dB above AGC | -51 | 19.46 | 33.46 | 2.22 | / |
| | | GSM | Pre-AGC | -61 | 19.34 | 33.34 | 2.16 | 80.34 |
| | | | 3dB above AGC | -58 | 19.51 | 33.51 | 2.24 | / |
| Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 14dBi declared by the manufacturer. | | | | | | | | |

| Mean output power | | | | | | | |
|---|---------------------|-------------|---------------|------------------------|----------------|--------------|---------|
| Test Path | Test Freq. f0 (MHz) | Test Signal | Signal Level | Output Power (dBm/MHz) | EIRP (dBm/MHz) | EIRP (W/MHz) | Verdict |
| UL | 1733.4 | 4.1MHz AWGN | Pre-AGC | 13.12 | 27.12 | 0.52 | PASS |
| | | | 3dB above AGC | 13.42 | 27.42 | 0.56 | PASS |
| | | 100MHz AWGN | Pre-AGC | 6.52 | 20.52 | 0.12 | PASS |
| | | | 3dB above AGC | 6.88 | 20.88 | 0.13 | PASS |
| | | GSM | Pre-AGC | 19.34 | 33.34 | 2.16 | PASS |
| | | | 3dB above AGC | 19.51 | 33.51 | 2.24 | PASS |
| Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 14dBi declared by the manufacturer. 3. The output power is limited to an EIRP of 1640W/MHz. | | | | | | | |



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| Peak-to-average ratio (PAR) | | | | | | |
|--|---------------------|-------------|---------------|----------|------------|---------|
| Test path | Test freq. f0 (MHz) | Test Signal | Signal level | PAR (dB) | Limit (dB) | Verdict |
| UL | 1733.4 | 4.1MHz AWGN | Pre-AGC | 9.21 | ≤13 | PASS |
| | | | 3dB above AGC | 9.10 | | PASS |
| | | 100MHz AWGN | Pre-AGC | 8.81 | | PASS |
| | | | 3dB above AGC | 8.73 | | PASS |
| Remark: The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN were record in the report to demonstrate PAR compliance. | | | | | | |

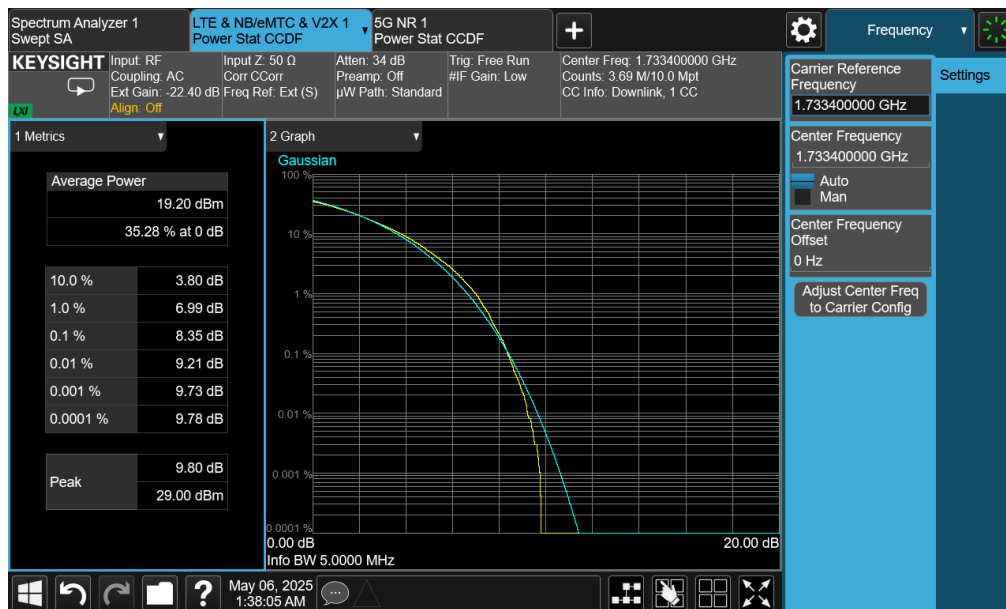


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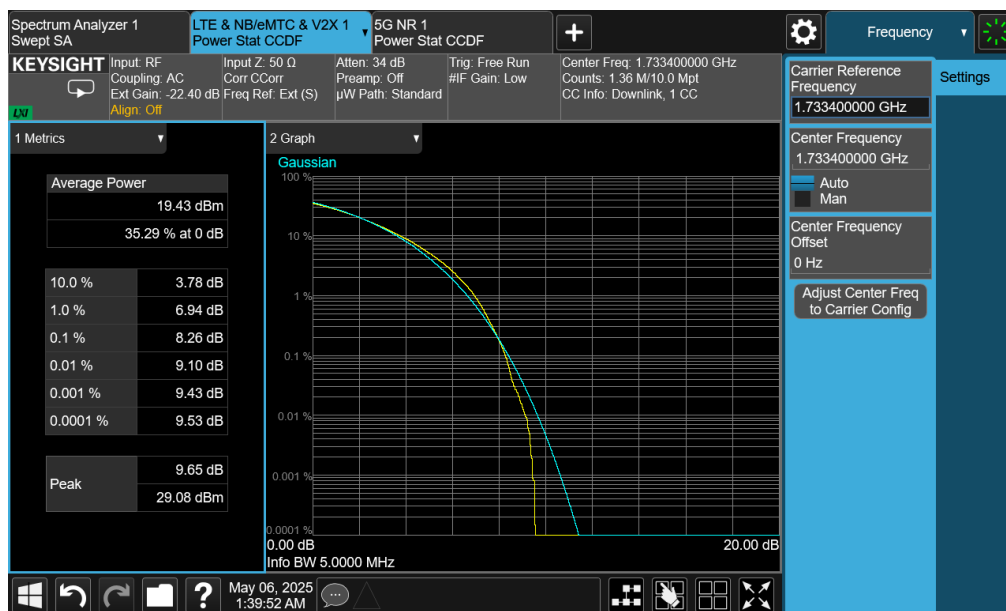
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Peak-to-average ratio (PAR)

UL_4.1MHz AWGN_Pre-AGC



UL_4.1MHz AWGN_3dB above AGC



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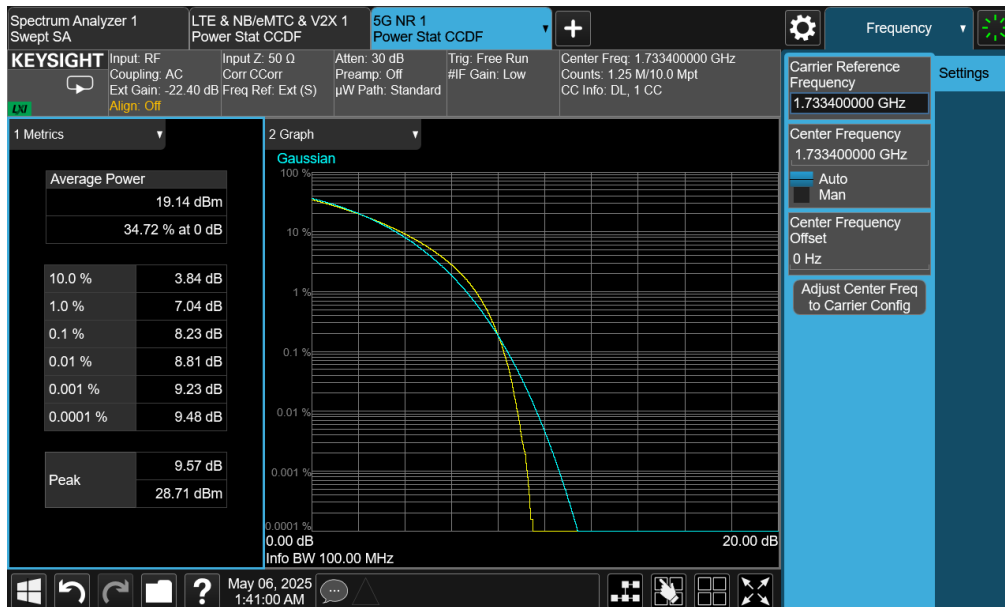
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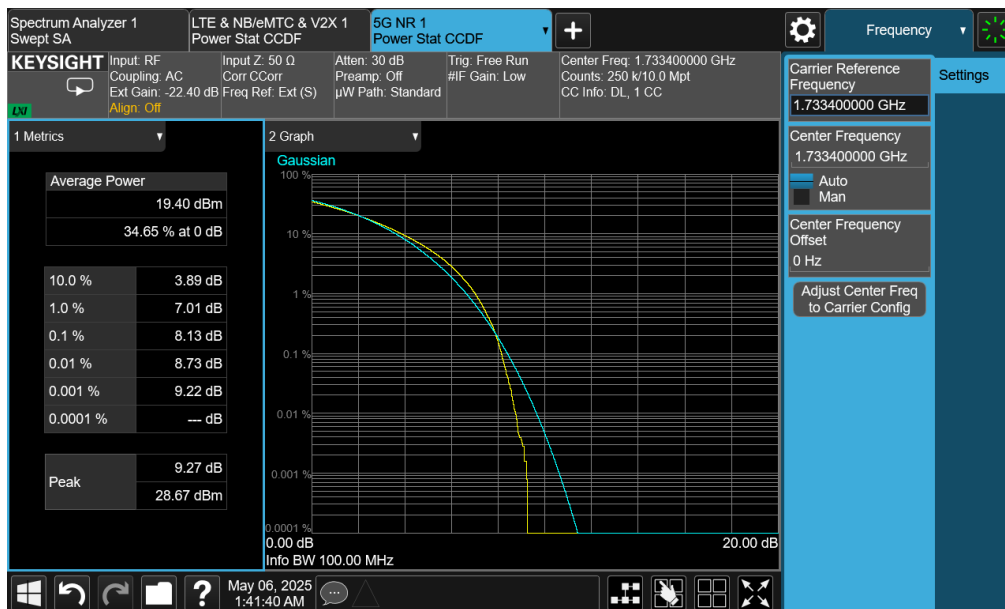
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Peak-to-average ratio (PAR)

UL_100MHz AWGN_Pre-AGC



UL_100MHz AWGN_3dB above AGC



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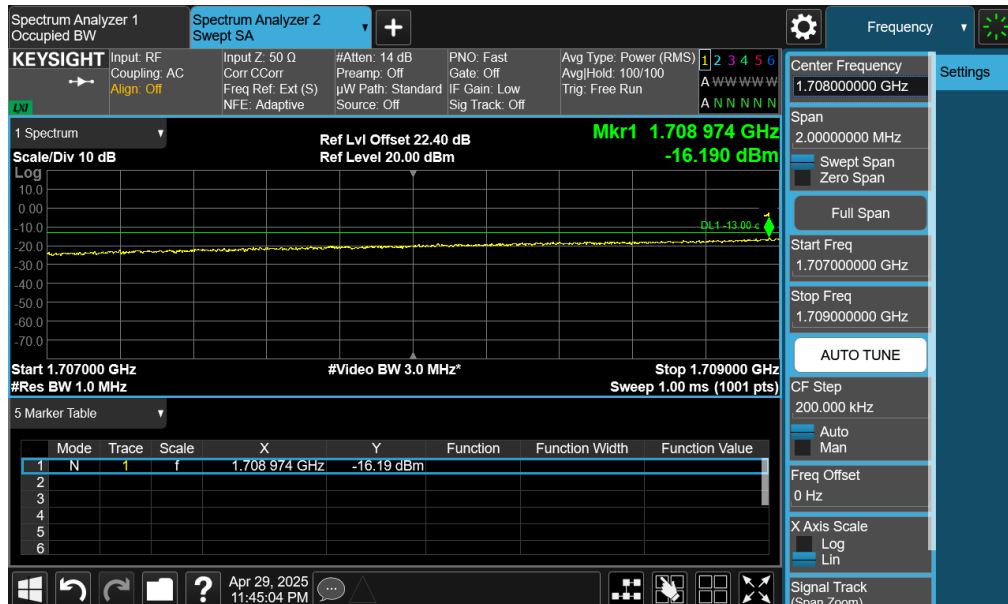
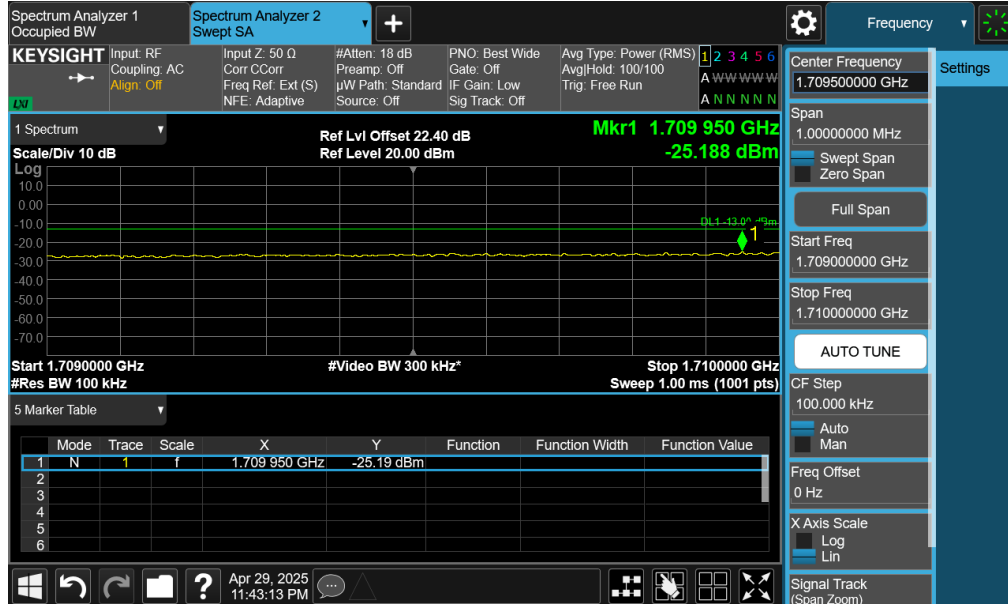
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4 Out-of-band/out-of-block(including intermodulation) emissions

| Out-of-band/out-of-block(including intermodulation) emissions | | | | | | | |
|--|---------------|-------------|--------------------|---------------|----------------------------------|-------------|---------|
| Test Path | Test Channel | Test Signal | Stimulus Condition | Signal Level | Worst conducted test level (dBm) | Limit (dBm) | Verdict |
| UL | LCH | 4.1MHz AWGN | One signal input | Pre-AGC | -16.19 | ≤-13 | PASS |
| | | | | 3dB above AGC | -16.35 | | PASS |
| | | | Two signals input | Pre-AGC | -16.02 | | PASS |
| | | | | 3dB above AGC | -16.05 | | PASS |
| | HCH | | One signal input | Pre-AGC | -17.01 | | PASS |
| | | | | 3dB above AGC | -17.01 | | PASS |
| | | | Two signals input | Pre-AGC | -16.67 | | PASS |
| | | | | 3dB above AGC | -16.69 | | PASS |
| UL | LCH | 100MHz AWGN | One signal input | Pre-AGC | -15.17 | ≤-13 | PASS |
| | 3dB above AGC | | | -15.40 | PASS | | |
| | HCH | | One signal input | Pre-AGC | -16.21 | | PASS |
| | | | | 3dB above AGC | -16.24 | | PASS |
| UL | LCH | GSM | One signal input | Pre-AGC | -15.79 | ≤-13 | PASS |
| | | | | 3dB above AGC | -15.62 | | PASS |
| | | | Two signals input | Pre-AGC | -15.24 | | PASS |
| | | | | 3dB above AGC | -15.09 | | PASS |
| | HCH | | One signal input | Pre-AGC | -15.58 | | PASS |
| | | | | 3dB above AGC | -15.29 | | PASS |
| | | | Two signals input | Pre-AGC | -18.15 | | PASS |
| | | | | 3dB above AGC | -18.05 | | PASS |
| Remark: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, here, P= 19dBm= 0.08W the limit= 19dBm– [43+ 10log10(0.08W)]dB= -13dBm | | | | | | | |

Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



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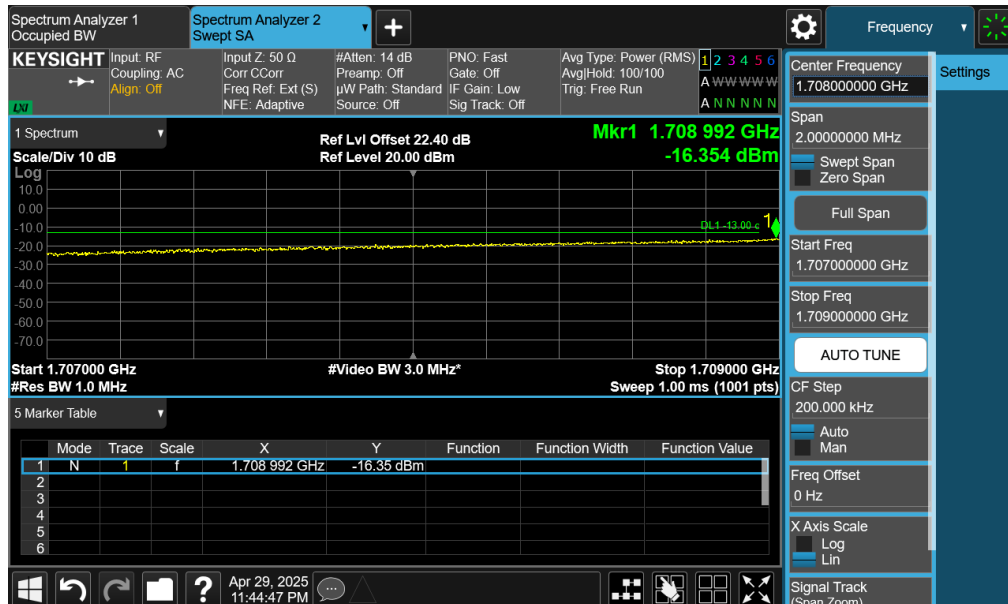
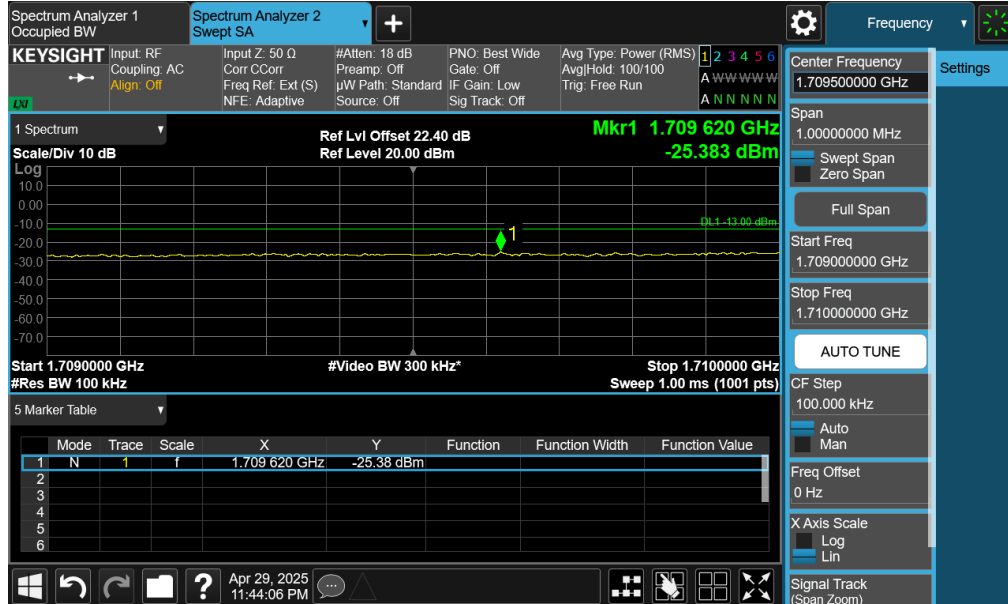
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



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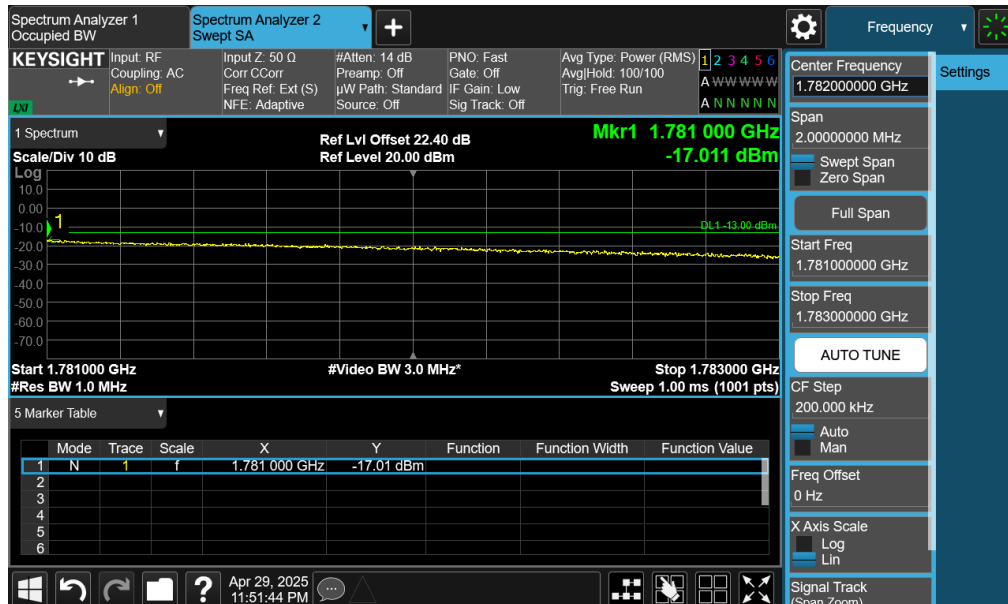
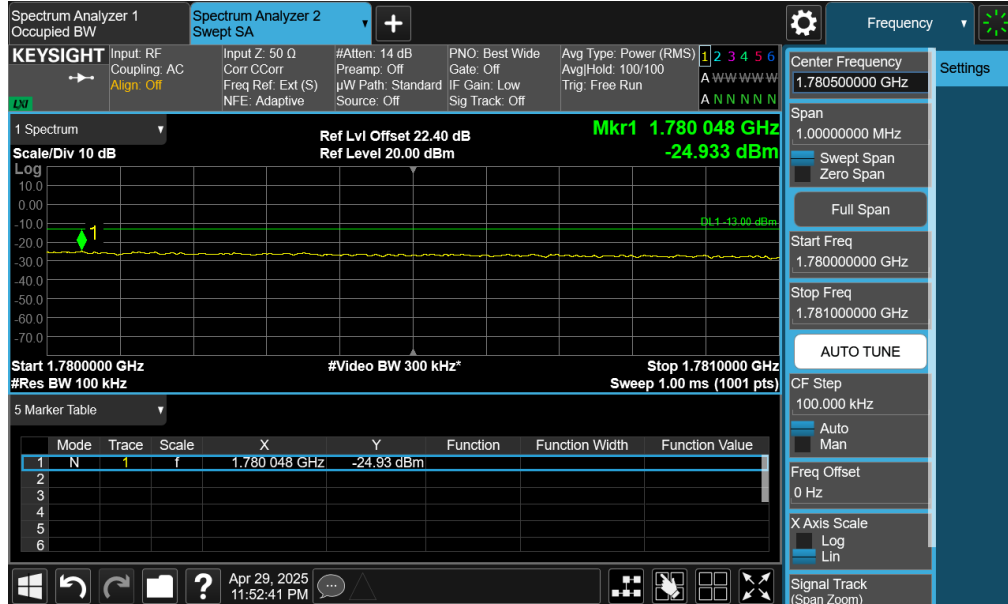
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



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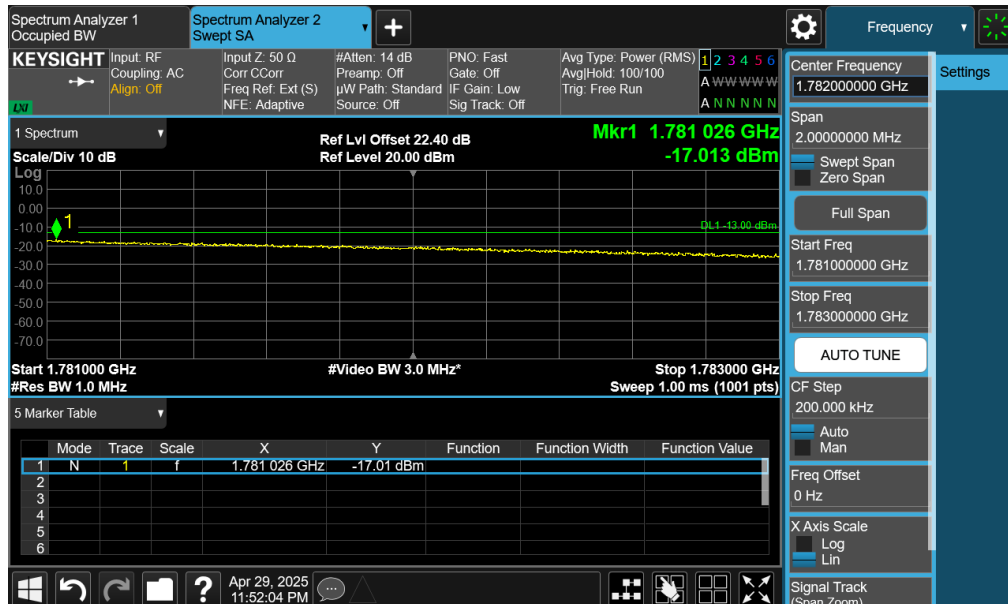
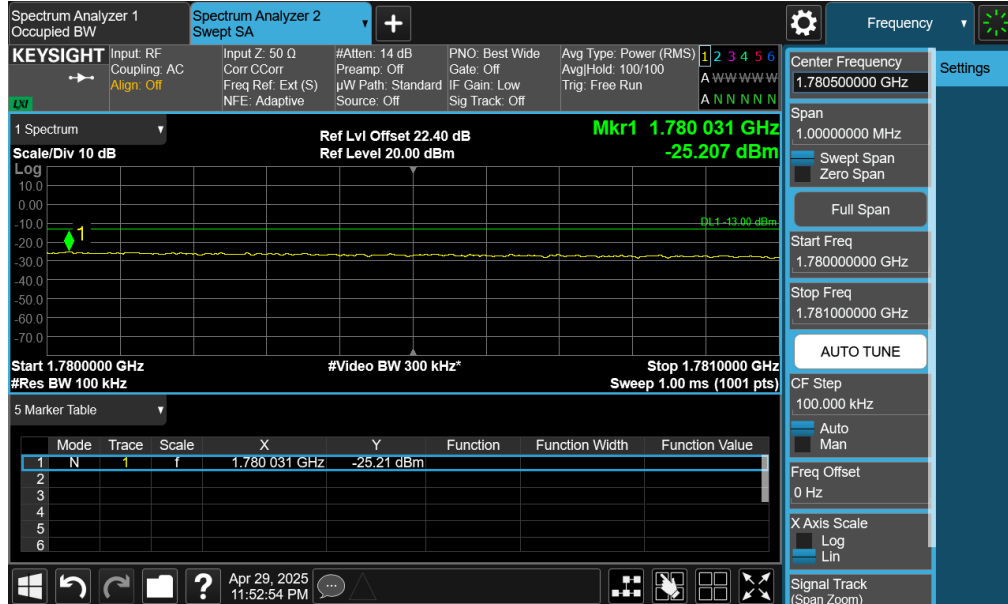
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



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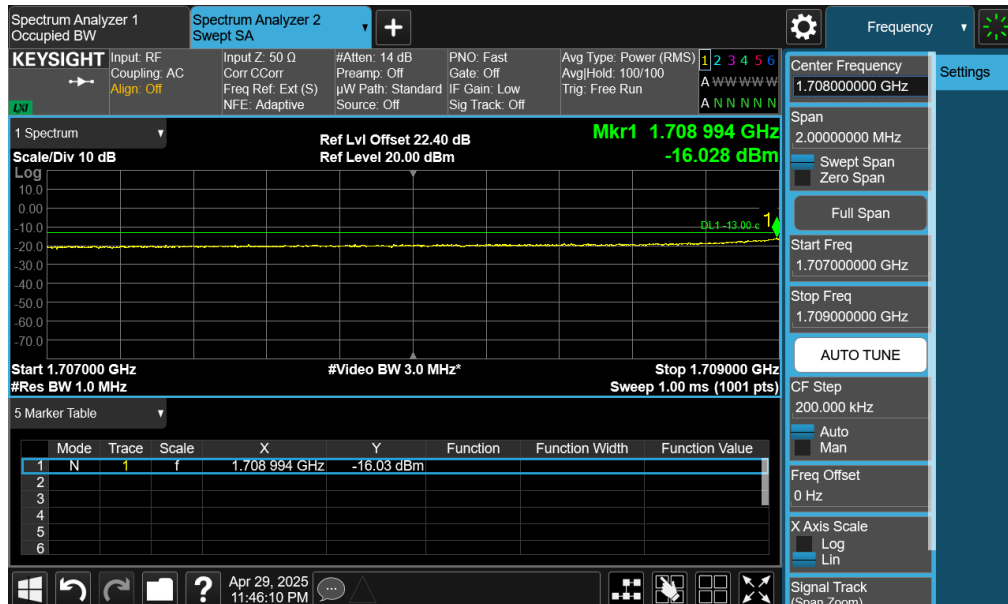
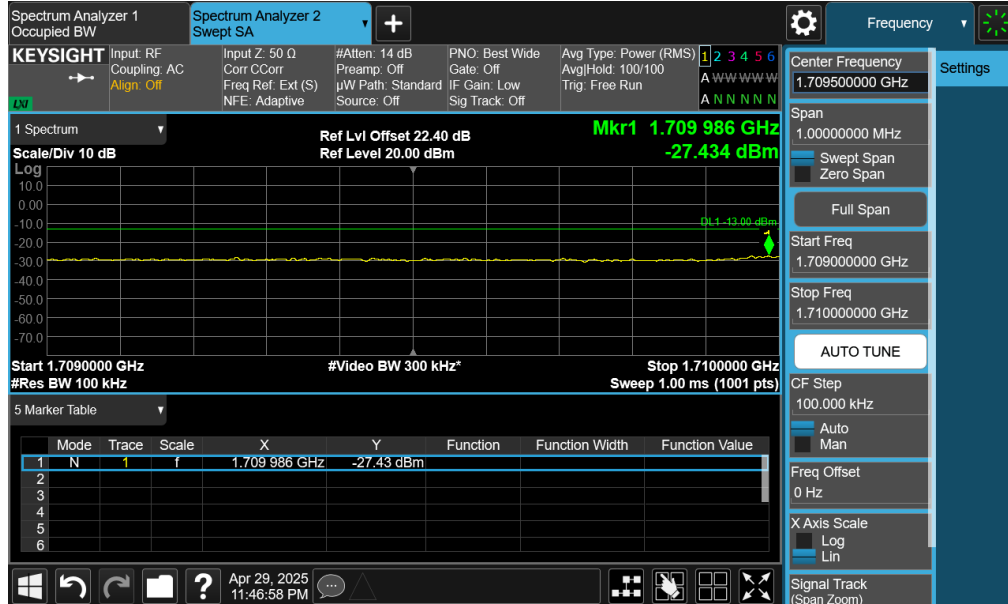
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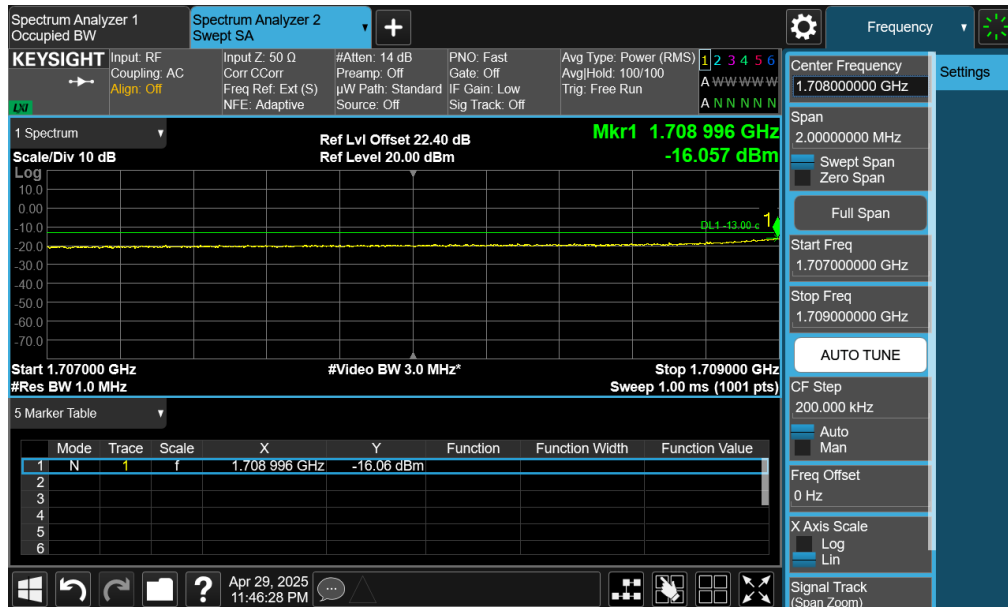
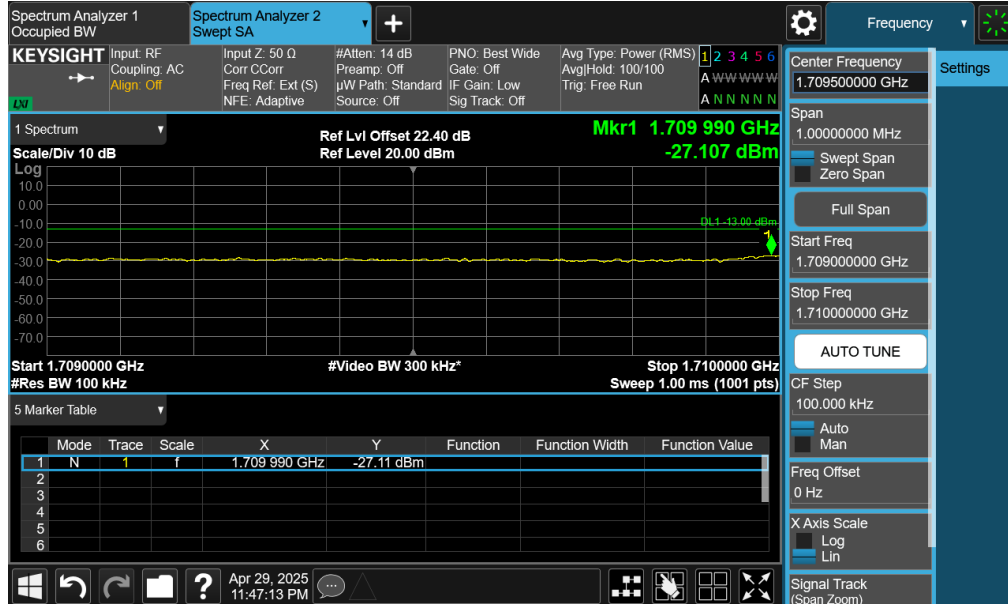
Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC



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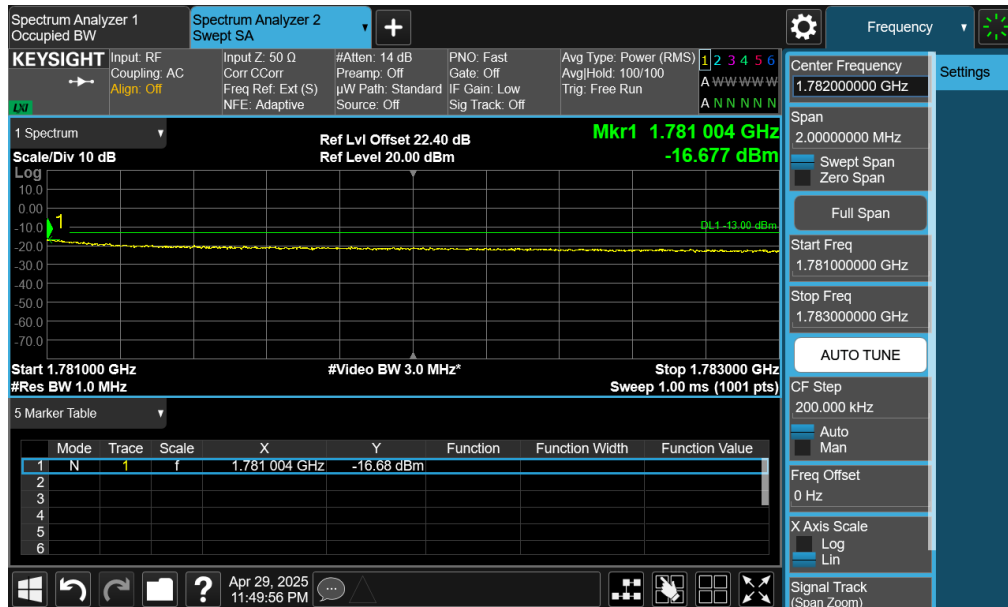
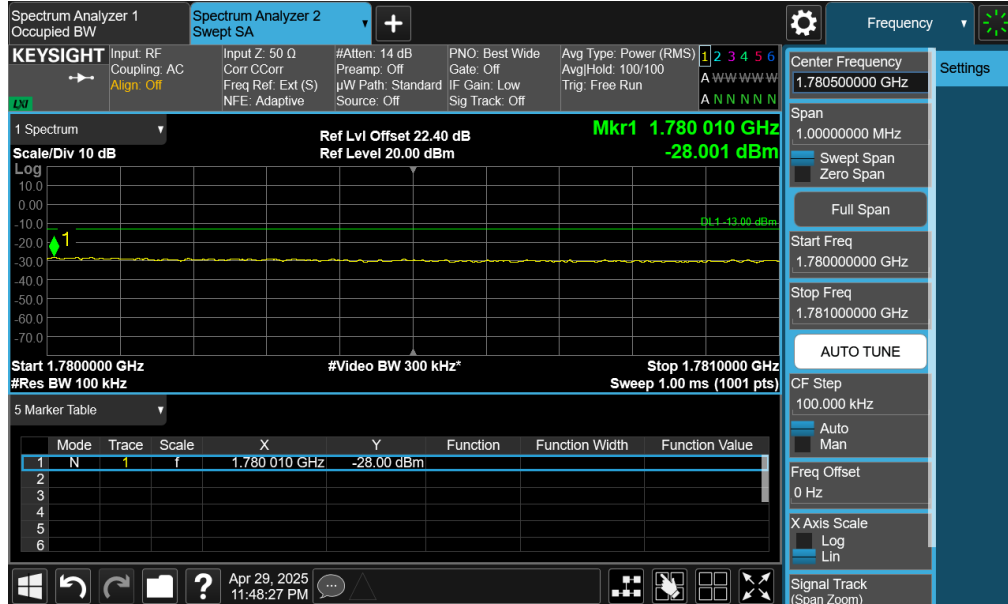
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



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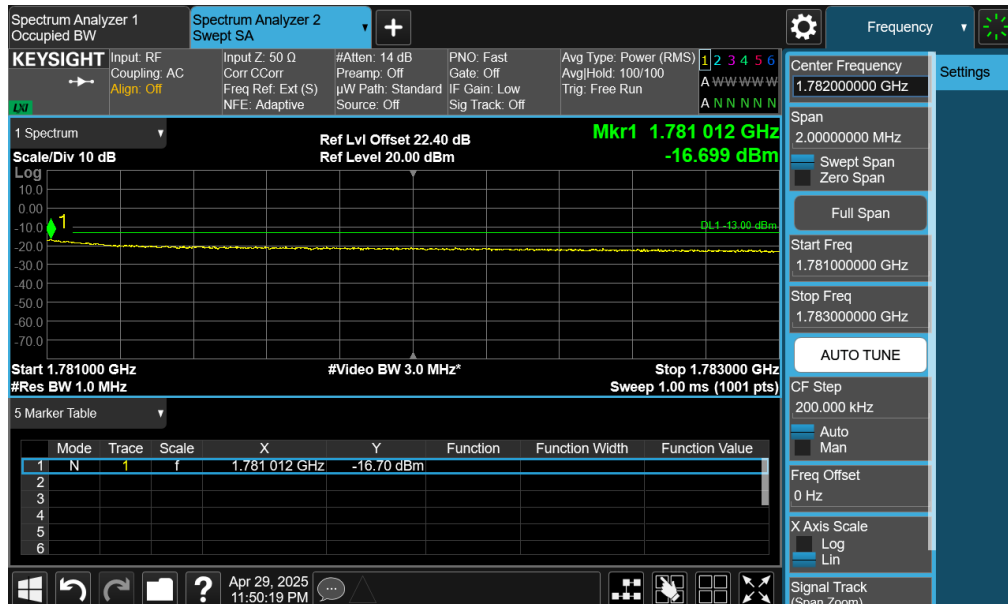
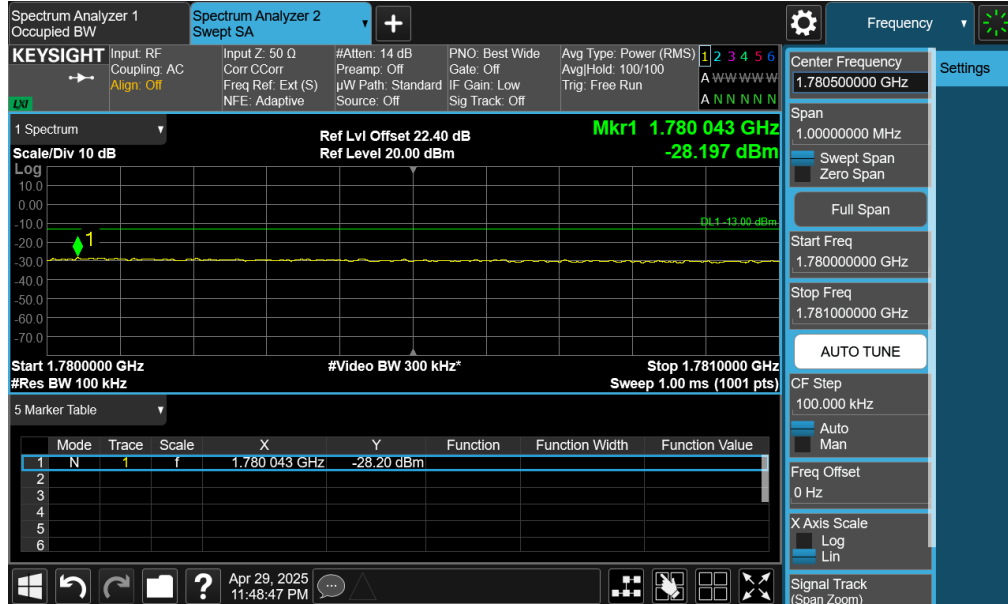
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



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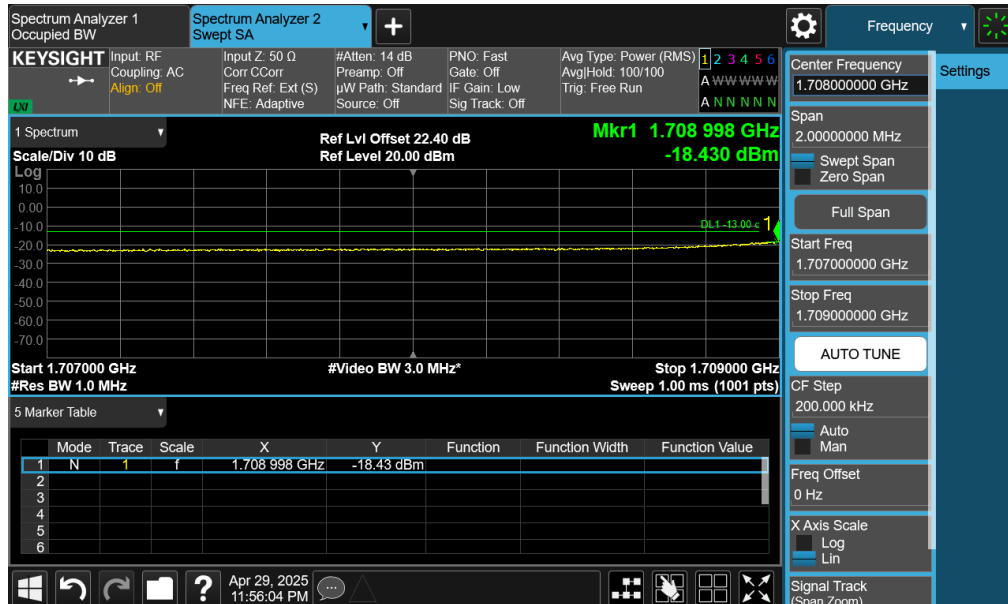
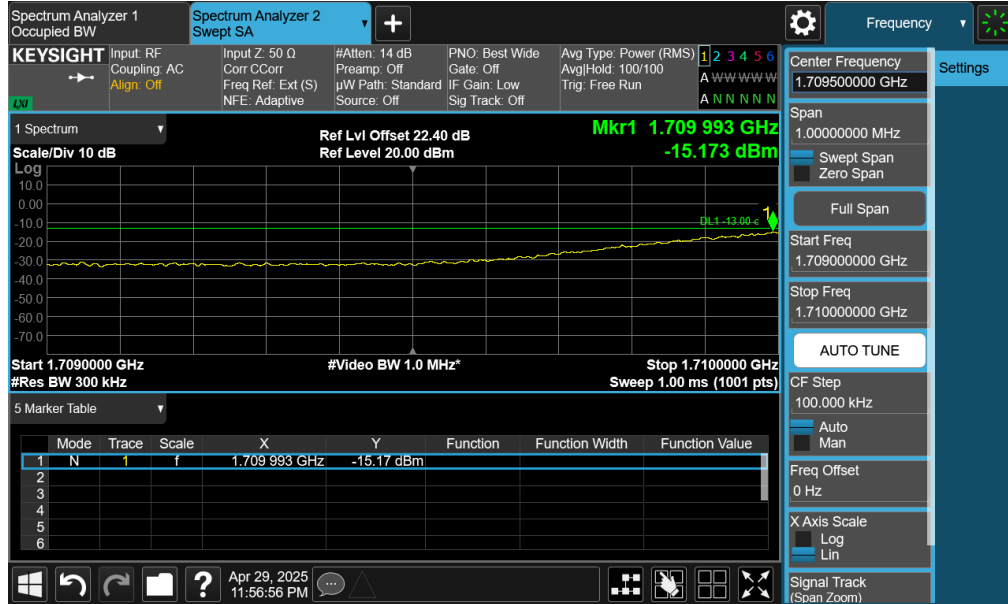
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Out-of-band/out-of-block emissions

UL_100MHz AWGN_LCH_a single test signal_Pre-AGC



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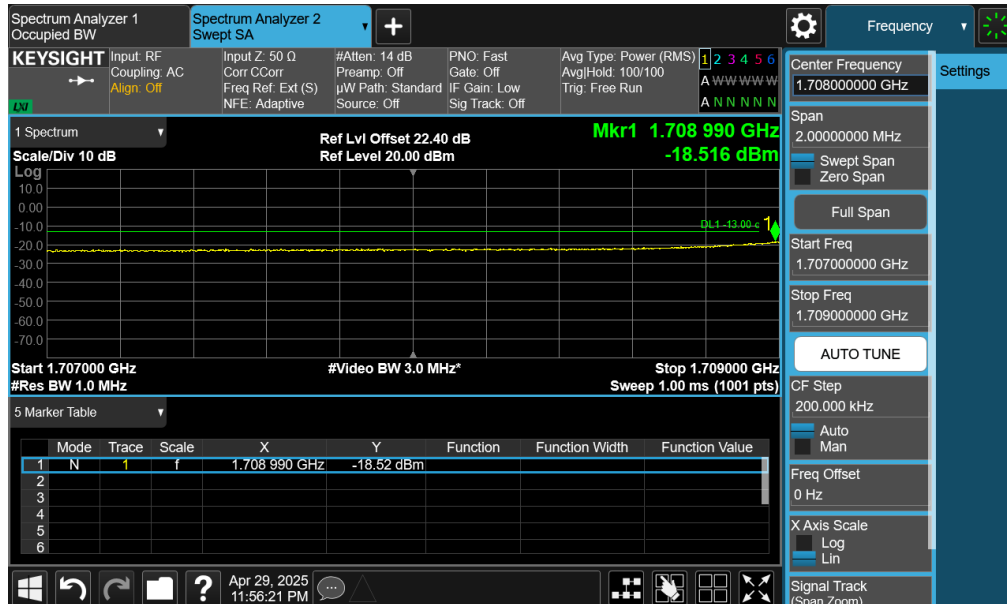
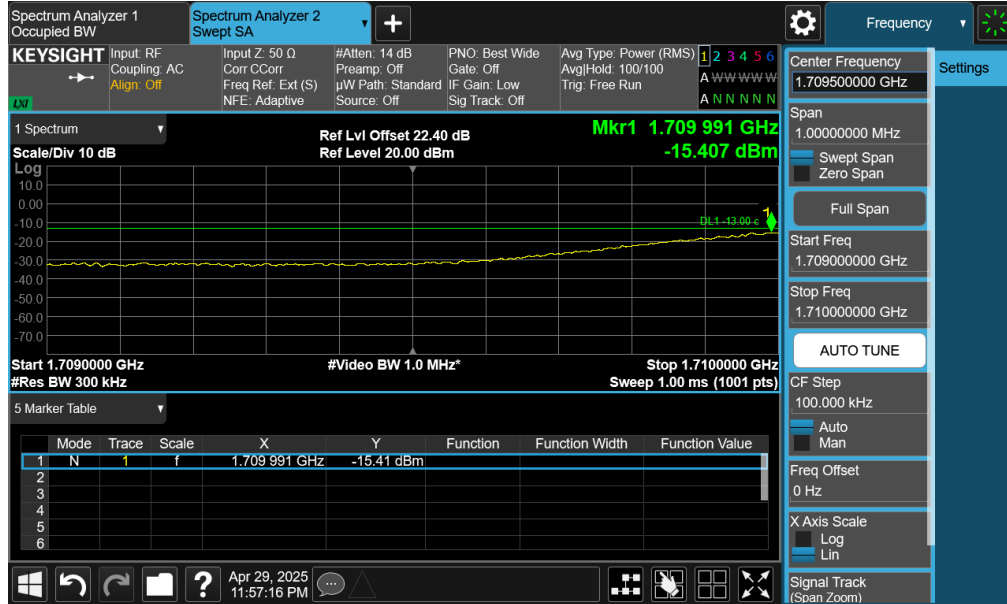
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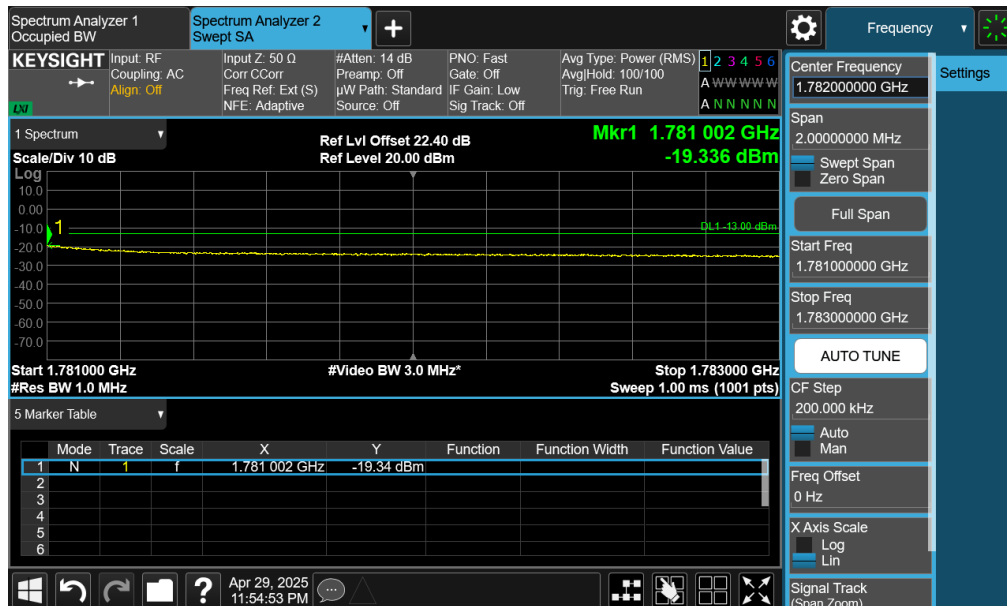
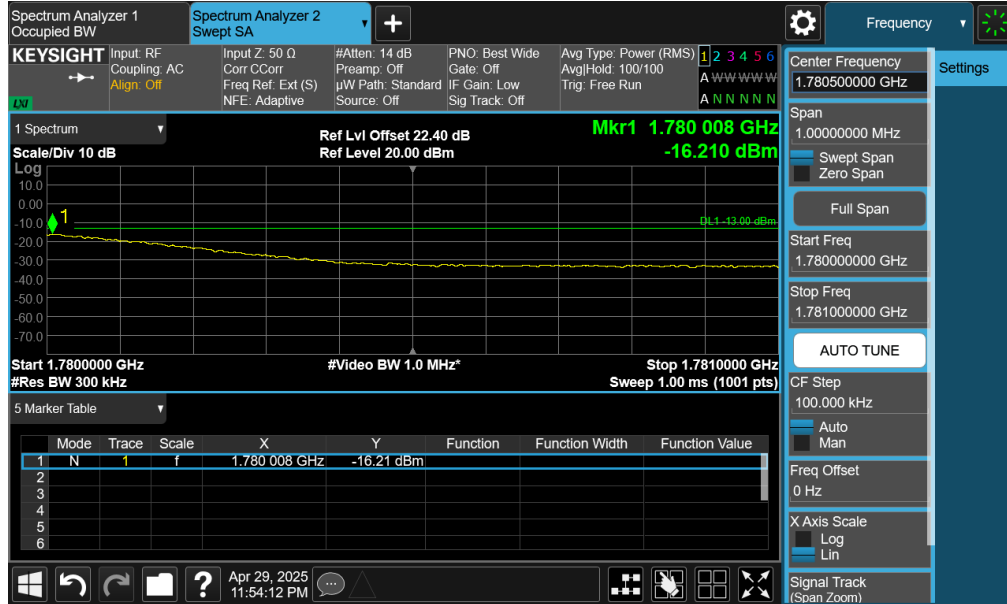
Out-of-band/out-of-block emissions

UL_100MHz AWGN_LCH_a single test signal_3dB above AGC



Out-of-band/out-of-block emissions

UL_100MHz AWGN_HCH_a single test signal_Pre-AGC



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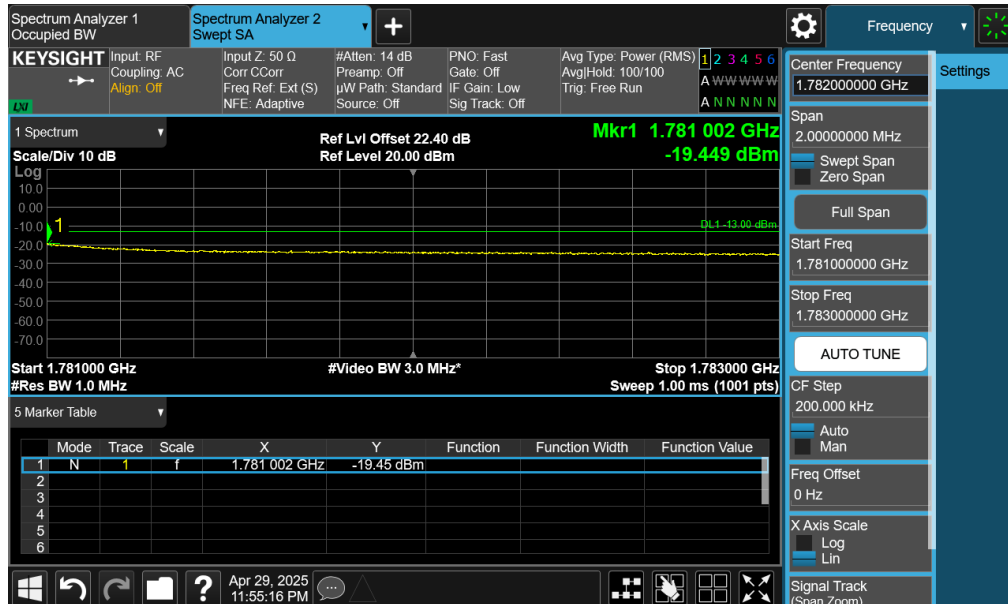
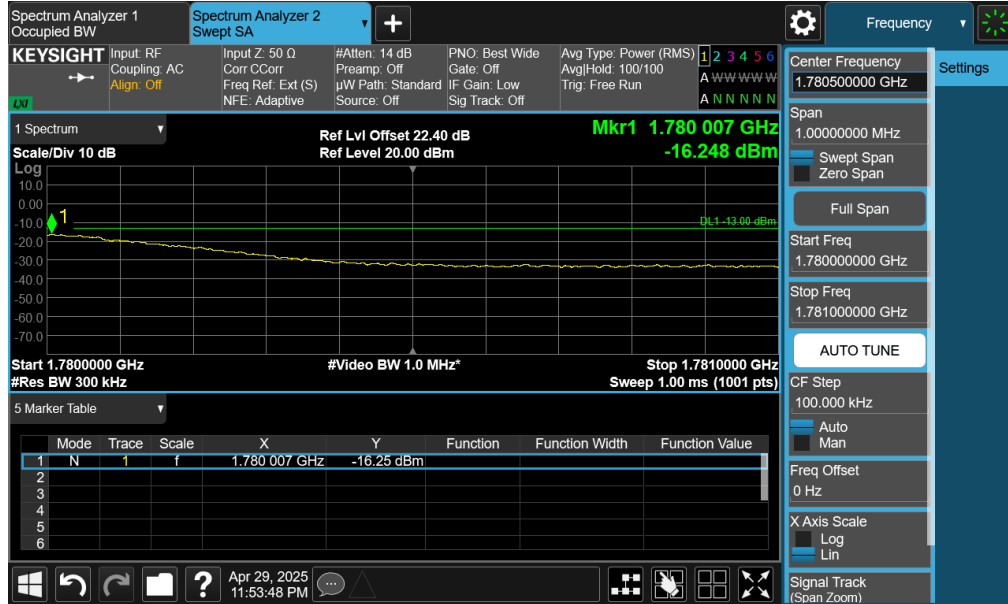
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Out-of-band/out-of-block emissions

UL_100MHz AWGN_HCH_a single test signal_3dB above AGC



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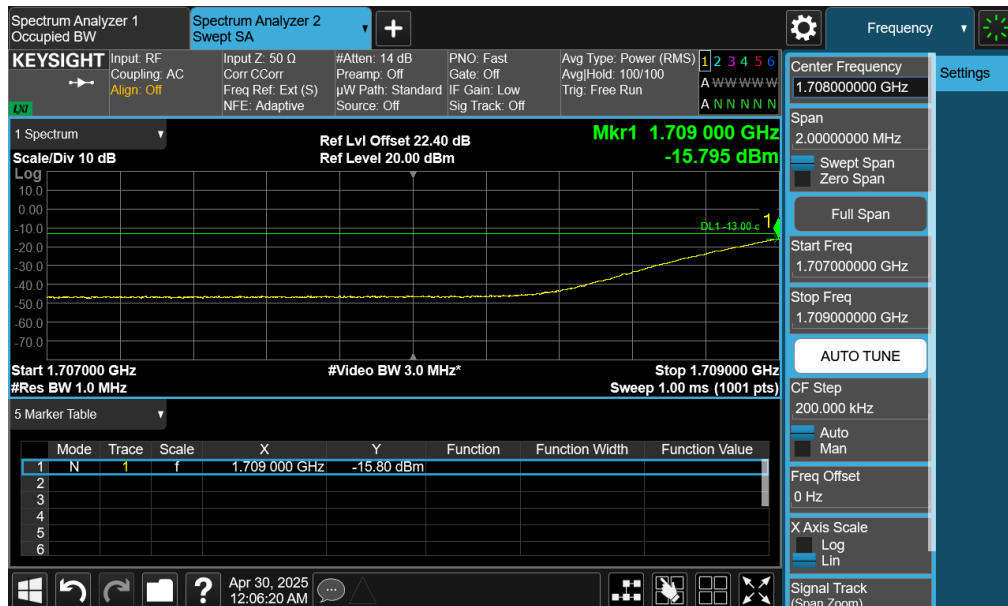
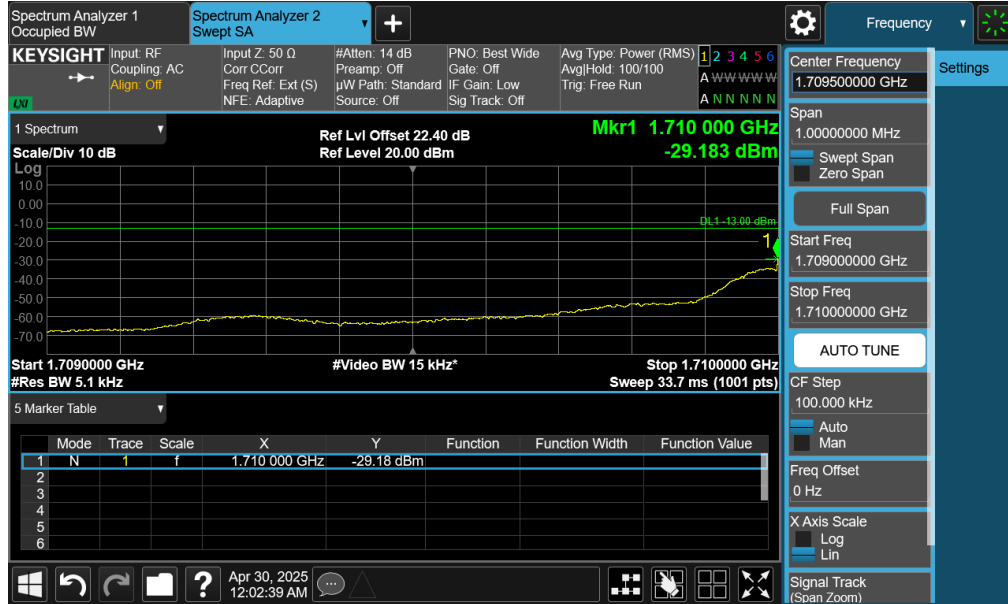
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Out-of-band/out-of-block emissions

UL_GSM_LCH_a single test signal_Pre-AGC



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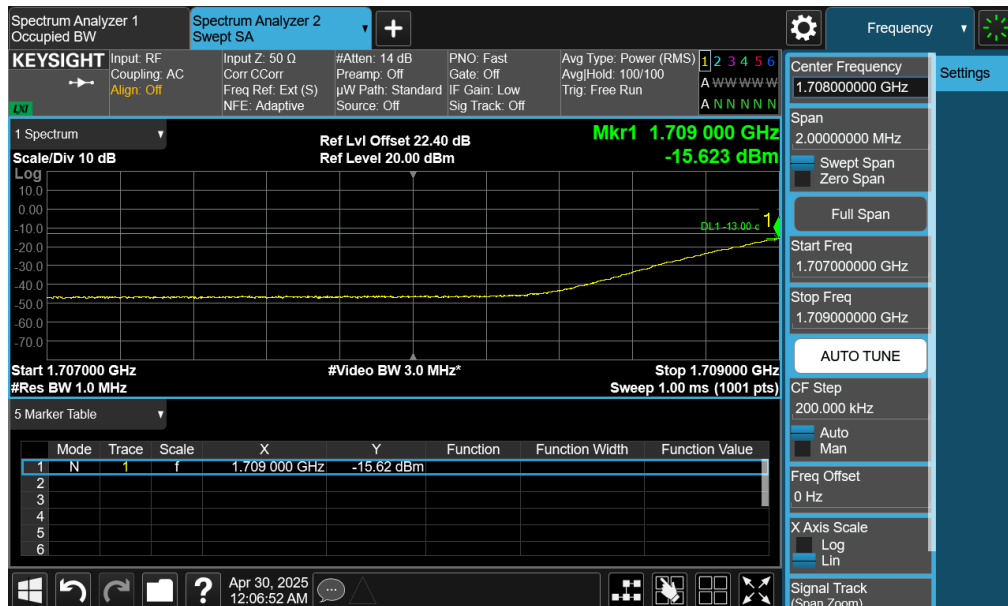
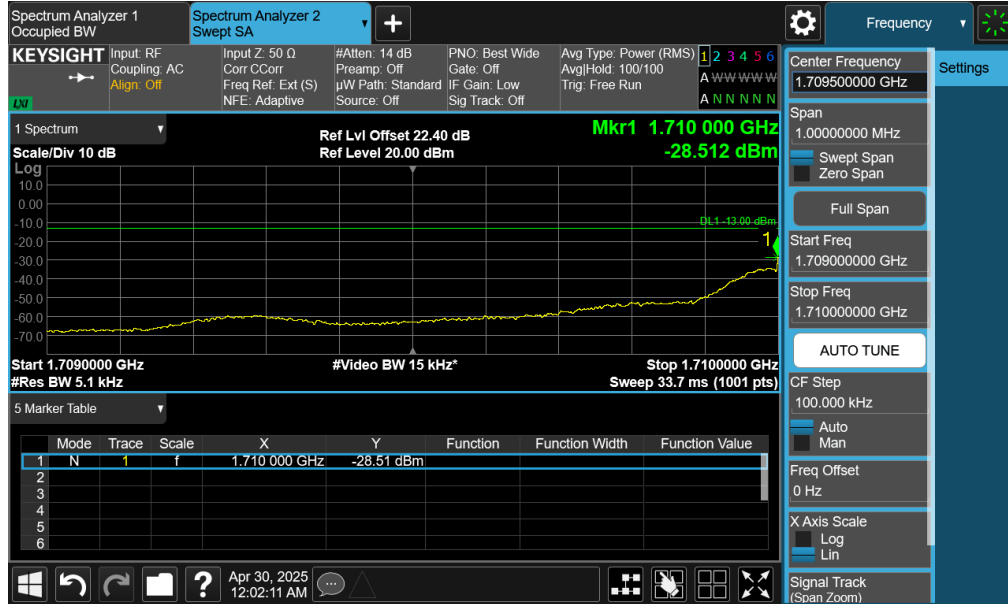
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Out-of-band/out-of-block emissions

UL_GSM_LCH_a single test signal_3dB above AGC



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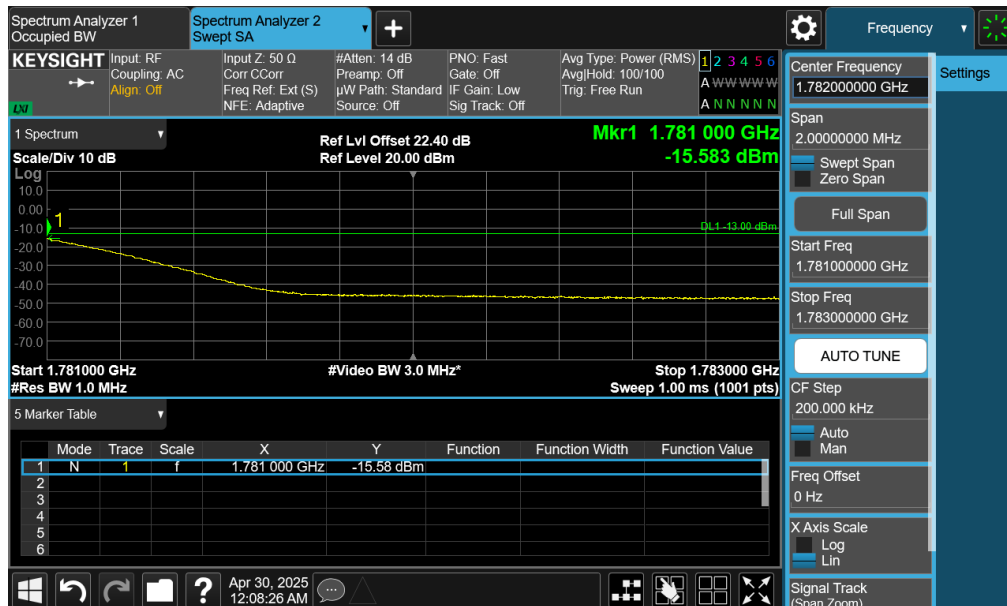
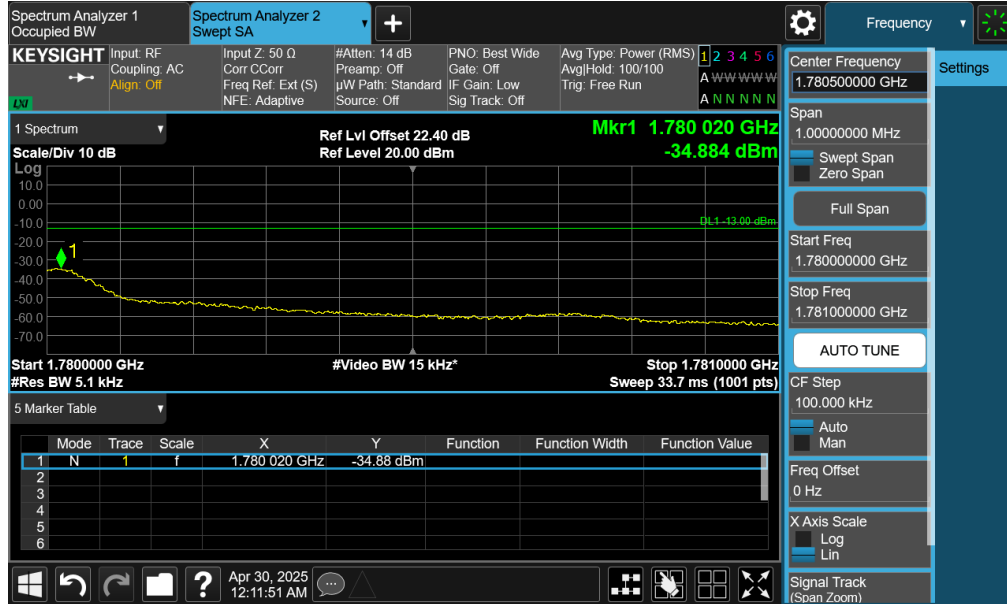
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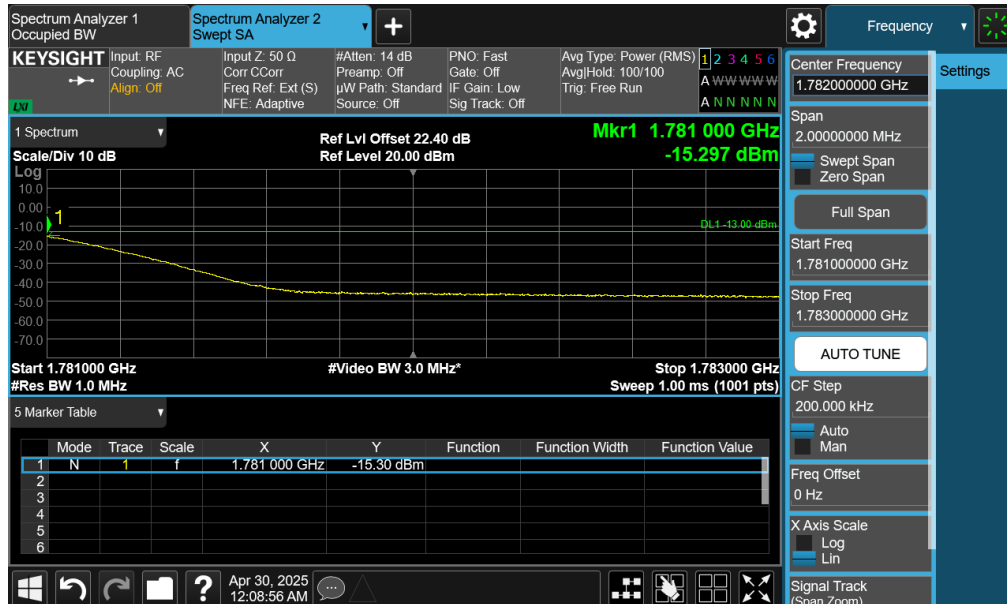
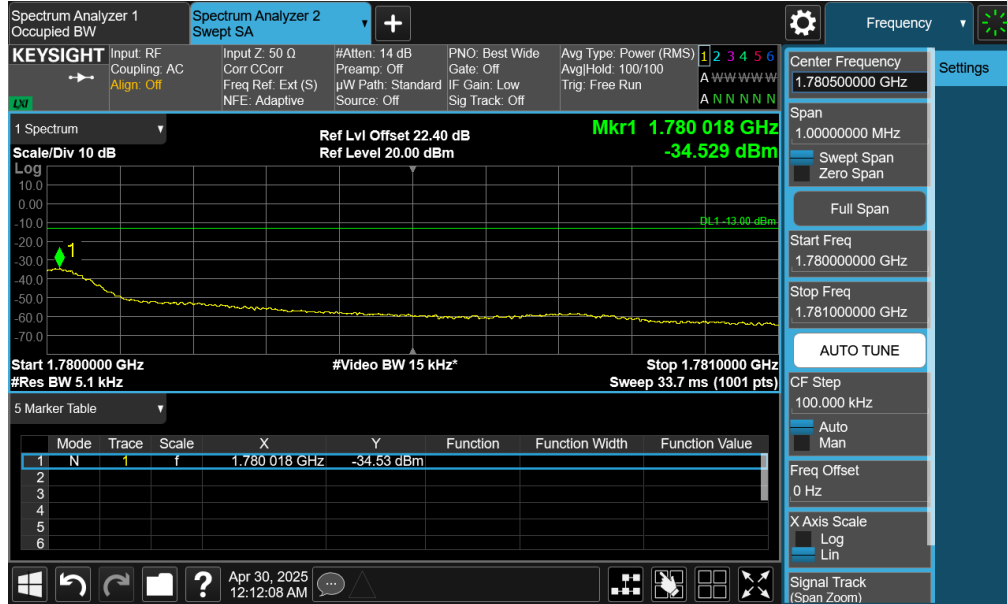
Out-of-band/out-of-block emissions

UL_GSM_HCH_a single test signal_Pre-AGC



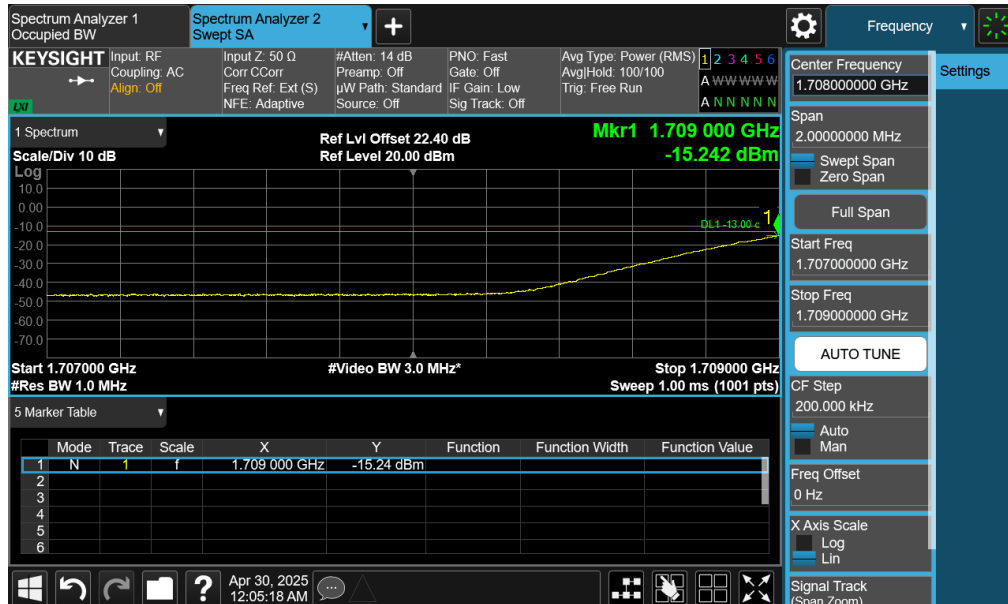
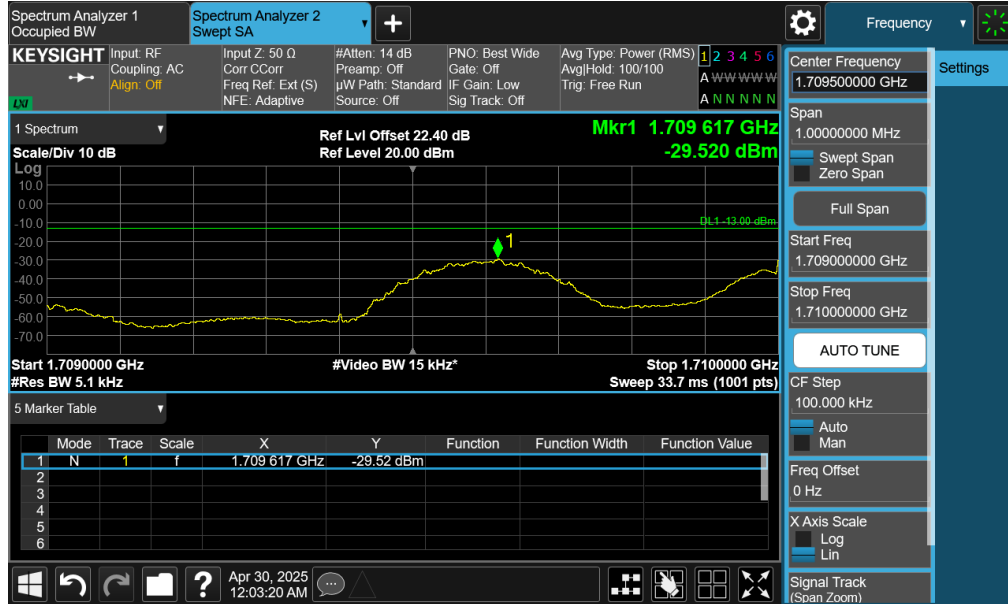
Out-of-band/out-of-block emissions

UL_GSM_HCH_a single test signal_3dB above AGC



Out-of-band/out-of-block emissions

UL_GSM_LCH_two adjacent test signals_Pre-AGC



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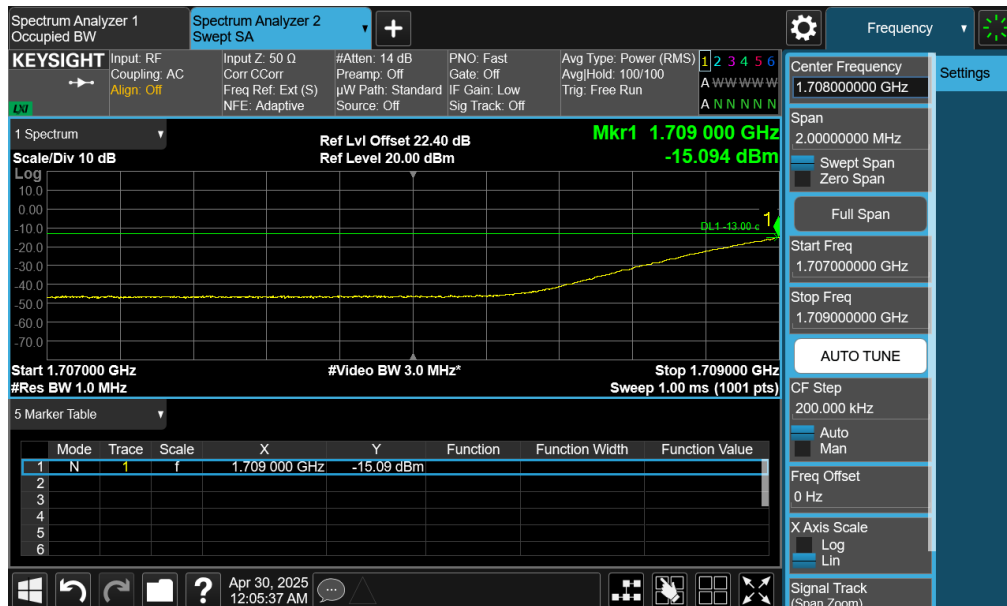
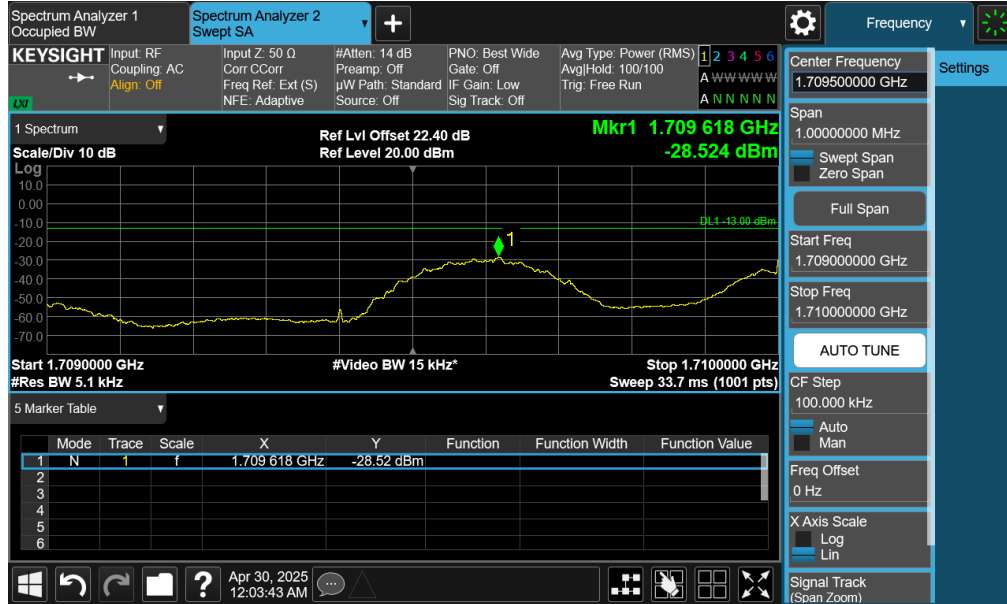
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Out-of-band/out-of-block emissions

UL_GSM_LCH_two adjacent test signals_3dB above AGC



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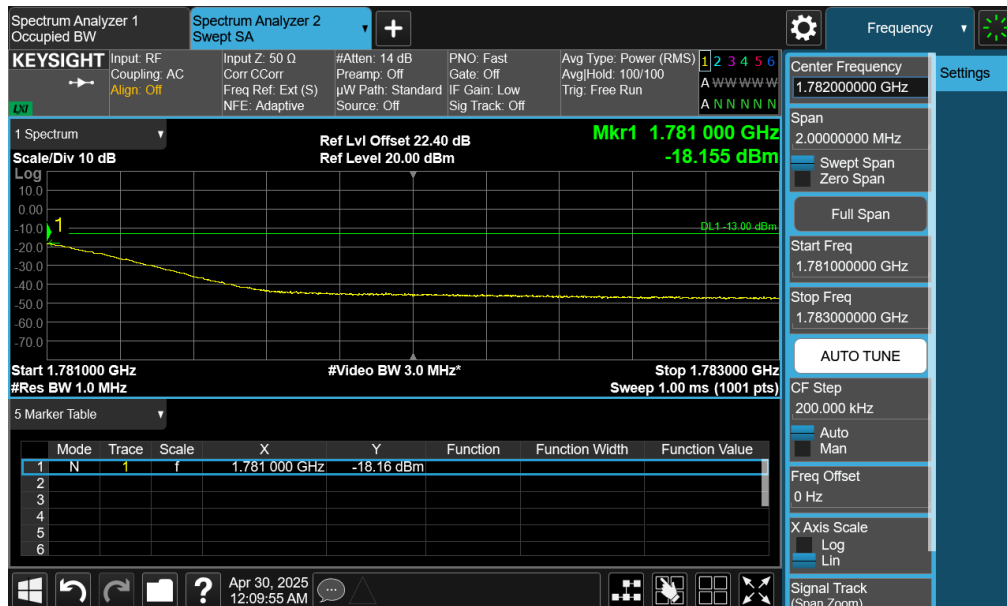
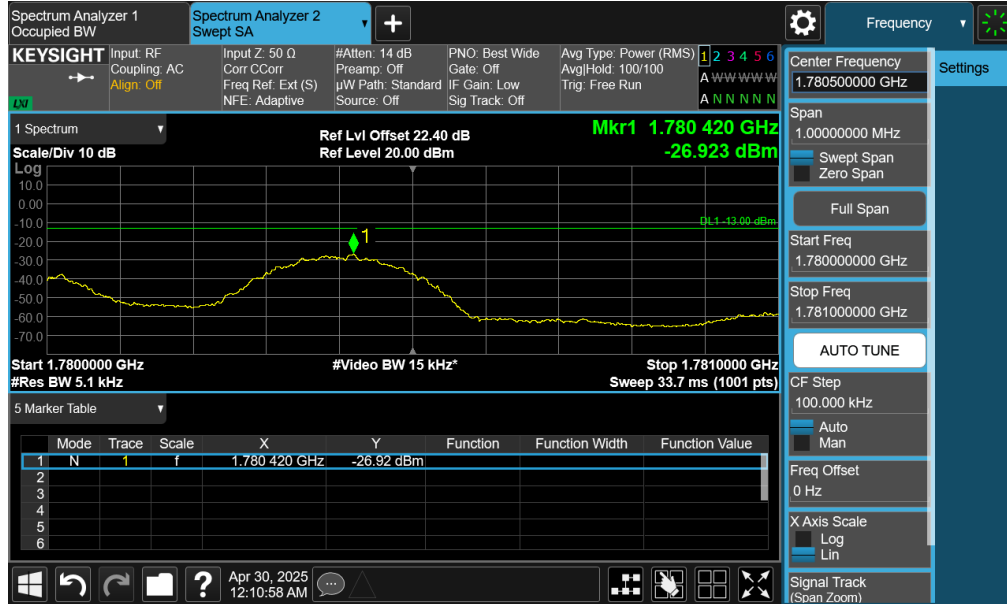
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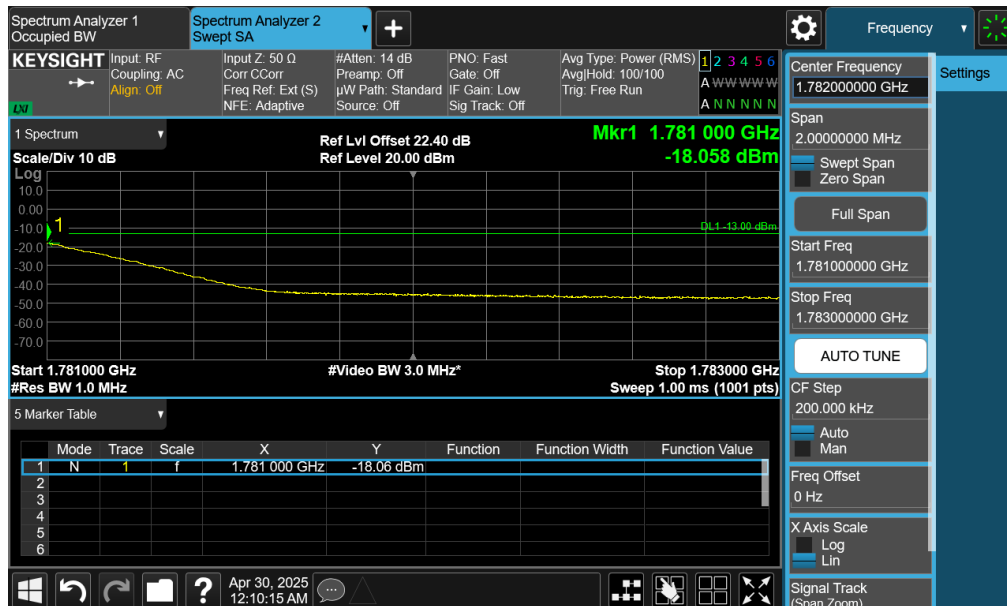
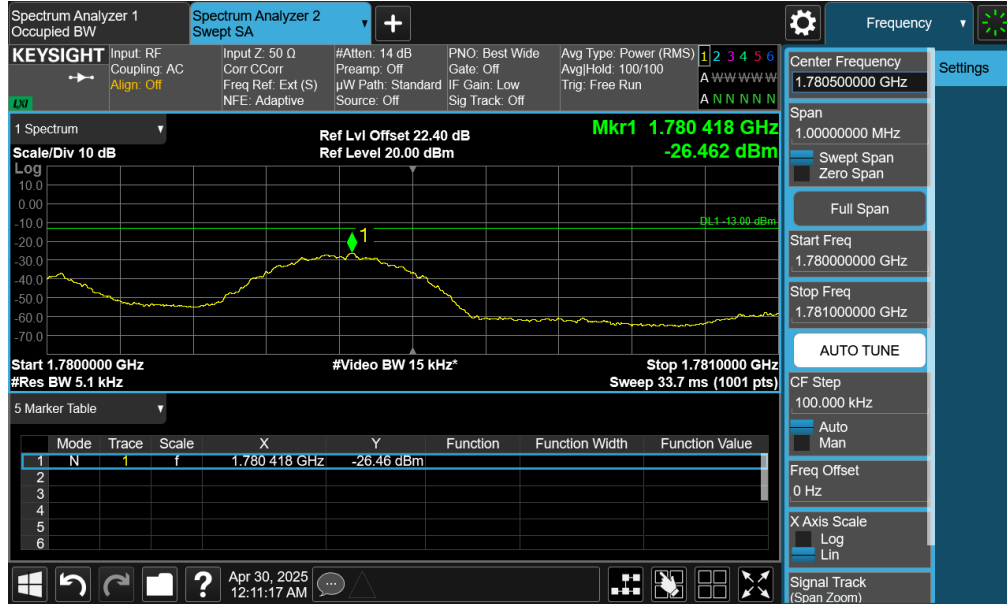
Out-of-band/out-of-block emissions

UL_GSM_HCH_two adjacent test signals_Pre-AGC



Out-of-band/out-of-block emissions

UL_GSM_HCH_two adjacent test signals_3dB above AGC



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5 Conducted Spurious emissions

| Conducted Spurious emissions | | | | | | |
|---|-------------|--------------|-----------------------|------------------------|-------------|---------|
| Test path | Test signal | Test channel | Frequency range (MHz) | Worst test level (dBm) | Limit (dBm) | Verdict |
| UL | GSM | LCH | 0.09-1000 | -35.79 | ≤-13 | PASS |
| | | | 1000-1709 | -17.00 | ≤-13 | PASS |
| | | HCH | 1781-17800 | -17.86 | ≤-13 | PASS |
| Remark: 1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, here, P= 19dBm= 0.008W limit= 19dBm– [43+ 10log10(0.08W)]dB= -13dBm 2. All modes (LCH/MCH/HCH, with 4.1MHz AWGN signal/ with 100MHz AWGN signal/ with GSM signal) had been tested, only show the worst-case in this report. 3. The spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report. | | | | | | |

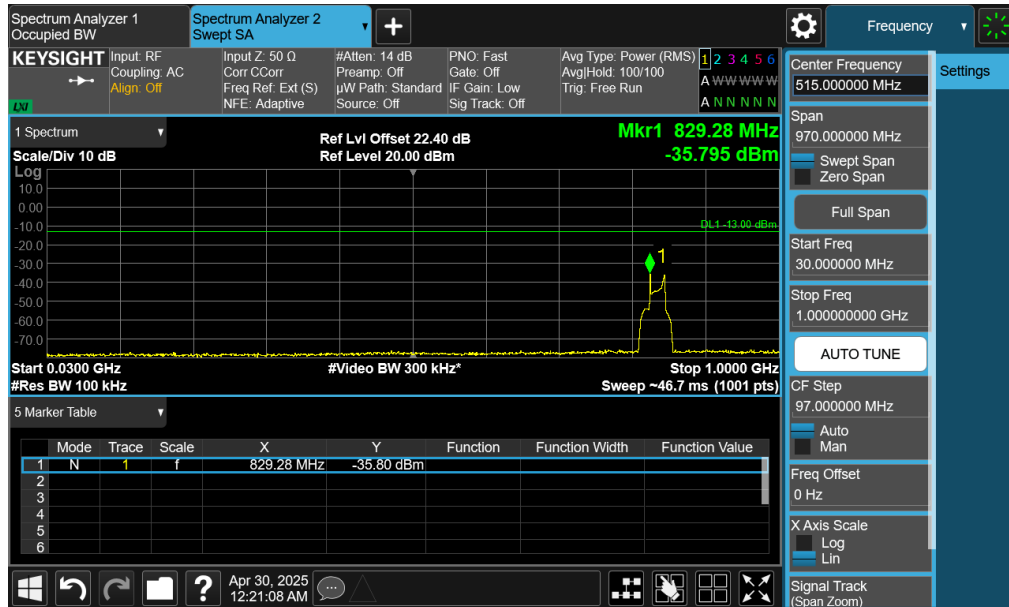


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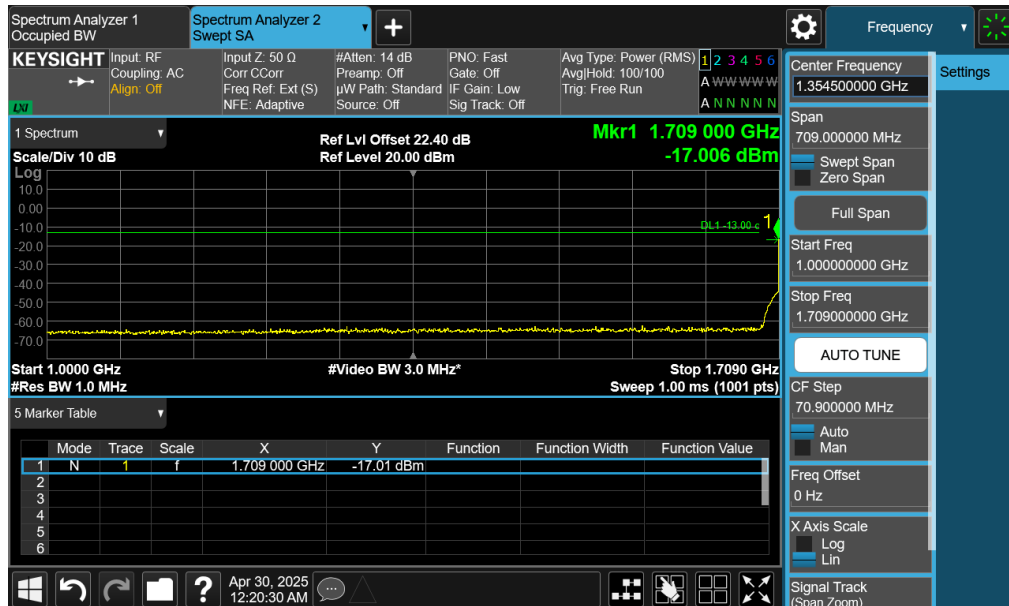
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Conducted spurious emissions

UL_GSM_LCH_Pre-AGC

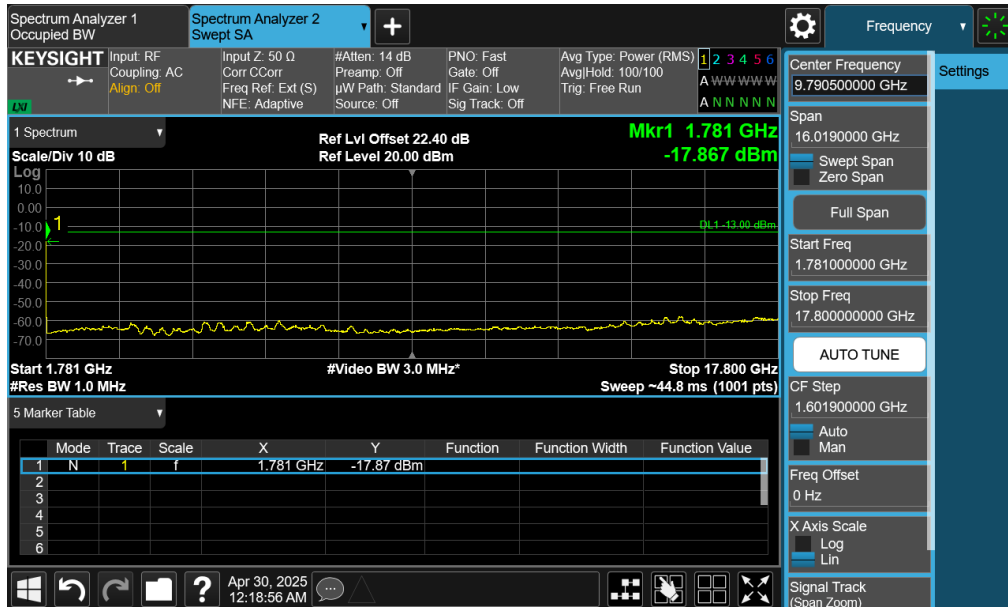


UL_GSM_LCH_Pre-AGC



Conducted spurious emissions

UL_GSM_HCH_Pre-AGC



6 Frequency Stability

| Frequency stability vs voltage | | | | | | | |
|--------------------------------|--------------|-------------|-------------|---------|------------------|-----------------|---------|
| Test path | Test Channel | Test Signal | Temperature | Voltage | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| UL | MCH | 4.1MHz AWGN | TN | VL | 4.4 | 0.00252 | PASS |
| | | | TN | VH | 4.4 | 0.00252 | PASS |
| | | 100MHz AWGN | TN | VL | 5.8 | 0.00332 | PASS |
| | | | TN | VH | 5.8 | 0.00332 | PASS |
| | | GSM | TN | VL | 4.7 | 0.00269 | PASS |
| | | | TN | VH | 4.7 | 0.00269 | PASS |



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| Frequency stability vs temperature | | | | | | | |
|------------------------------------|--------------|-------------|---------|------------------|------------------|-----------------|---------|
| Test Path | Test Channel | Test Signal | Voltage | Temperature (°C) | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| UL | MCH | 4.1MHz AWGN | VN | +50 | 6.0 | 0.00344 | PASS |
| | | | VN | +40 | 6.4 | 0.00367 | PASS |
| | | | VN | +30 | 6.6 | 0.00378 | PASS |
| | | | VN | +20 | 5.2 | 0.00298 | PASS |
| | | | VN | +10 | 8.1 | 0.00464 | PASS |
| | | | VN | 0 | 6.0 | 0.00344 | PASS |
| | | | VN | -10 | 7.6 | 0.00436 | PASS |
| | | | VN | -20 | 6.9 | 0.00395 | PASS |
| | | | VN | -30 | 4.3 | 0.00246 | PASS |
| | MCH | 100MHz AWGN | VN | +50 | 5.7 | 0.00327 | PASS |
| | | | VN | +40 | 4.3 | 0.00246 | PASS |
| | | | VN | +30 | 8.2 | 0.00470 | PASS |
| | | | VN | +20 | 6.0 | 0.00344 | PASS |
| | | | VN | +10 | 7.6 | 0.00436 | PASS |
| | | | VN | 0 | 4.8 | 0.00275 | PASS |
| | | | VN | -10 | 7.5 | 0.00430 | PASS |
| | | | VN | -20 | 7.9 | 0.00453 | PASS |
| | | | VN | -30 | 5.4 | 0.00309 | PASS |
| | MCH | GSM | VN | +50 | 7.8 | 0.00447 | PASS |
| | | | VN | +40 | 7.6 | 0.00436 | PASS |
| | | | VN | +30 | 6.7 | 0.00384 | PASS |
| | | | VN | +20 | 8.2 | 0.00470 | PASS |
| | | | VN | +10 | 6.5 | 0.00372 | PASS |
| | | | VN | 0 | 5.9 | 0.00338 | PASS |
| | | | VN | -10 | 4.1 | 0.00235 | PASS |
| | | | VN | -20 | 7.8 | 0.00447 | PASS |
| | | | VN | -30 | 4.2 | 0.00241 | PASS |



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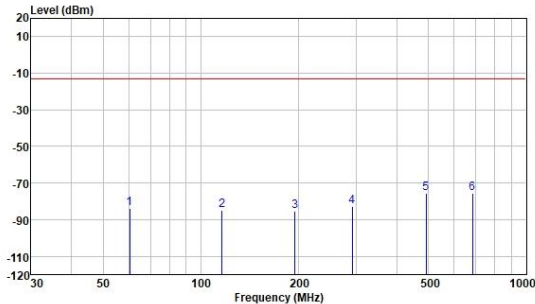
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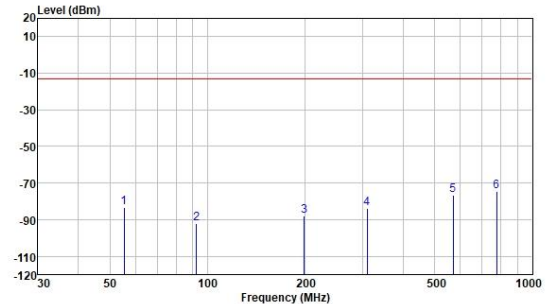
7 Radiated Spurious emissions

Radiated Spurious emissions

UL_4.1MHz AWGN_MCH_30MHz-1GHz

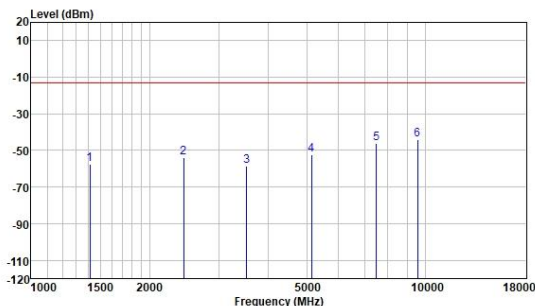


| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|--------|------------|------------|-----------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 68.28 | -81.70 | -2.19 | -83.89 | -13.00 | -70.89 | VERTICAL |
| 2 | 116.13 | -80.93 | -4.07 | -85.00 | -13.00 | -72.00 | VERTICAL |
| 3 | 194.45 | -80.74 | -4.55 | -85.29 | -13.00 | -72.29 | VERTICAL |
| 4 | 292.06 | -80.31 | -2.68 | -82.99 | -13.00 | -69.99 | VERTICAL |
| 5 | 492.47 | -77.64 | 1.96 | -75.68 | -13.00 | -62.68 | VERTICAL |
| 6 | 684.75 | -80.36 | 5.05 | -75.31 | -13.00 | -62.31 | VERTICAL |

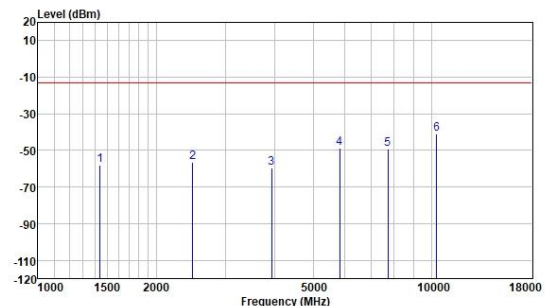


| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|--------|------------|------------|------------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 55.22 | -81.52 | -1.98 | -83.50 | -13.00 | -70.50 | HORIZONTAL |
| 2 | 92.46 | -82.30 | -9.73 | -92.03 | -13.00 | -79.03 | HORIZONTAL |
| 3 | 198.59 | -81.14 | -6.70 | -87.84 | -13.00 | -74.84 | HORIZONTAL |
| 4 | 310.00 | -80.28 | -3.50 | -83.78 | -13.00 | -70.78 | HORIZONTAL |
| 5 | 570.61 | -78.48 | 1.92 | -76.56 | -13.00 | -63.56 | HORIZONTAL |
| 6 | 776.88 | -80.58 | 5.99 | -74.59 | -13.00 | -61.59 | HORIZONTAL |

UL_4.1MHz AWGN_MCH_above 1GHz



| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|---------|------------|-------------------|--------|------------|------------|-----------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 1410.51 | -61.59 | 4.31 | -57.28 | -13.00 | -44.28 | VERTICAL |
| 2 | 2435.70 | -63.15 | 9.03 | -54.12 | -13.00 | -41.12 | VERTICAL |
| 3 | 3515.96 | -62.72 | 4.21 | -58.51 | -13.00 | -45.51 | VERTICAL |
| 4 | 5134.34 | -63.99 | 11.78 | -52.21 | -13.00 | -39.21 | VERTICAL |
| 5 | 7497.65 | -62.44 | 16.27 | -46.17 | -13.00 | -33.17 | VERTICAL |
| 6 | 9558.02 | -61.91 | 17.80 | -44.11 | -13.00 | -31.11 | VERTICAL |



| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|----------|------------|-------------------|--------|------------|------------|------------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 1439.34 | -62.53 | 4.65 | -57.88 | -13.00 | -44.88 | HORIZONTAL |
| 2 | 2471.16 | -65.59 | 9.03 | -56.56 | -13.00 | -43.56 | HORIZONTAL |
| 3 | 3924.14 | -62.42 | 2.87 | -59.55 | -13.00 | -46.55 | HORIZONTAL |
| 4 | 5830.64 | -64.29 | 15.43 | -48.86 | -13.00 | -35.86 | HORIZONTAL |
| 5 | 7739.86 | -63.57 | 14.57 | -49.00 | -13.00 | -36.00 | HORIZONTAL |
| 6 | 10274.24 | -62.84 | 21.75 | -41.09 | -13.00 | -28.09 | HORIZONTAL |



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Page: 41 of 41

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

--End of Appendix--



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